REPORT ON

Google Gen AI Workshop:

Empowering Educators with Generative AI & AI-Powered Academic Productivity

Equipping Educators. Enhancing Productivity. Transforming Higher Education.



30 JULY 2026
09:00 AM to 05:40 PM IST

Venue
Deenbandhu Chhotu Ram University of Science & Technology, Murthal

Organised by
Haryana State Higher Education Council in Collaboration with Deenbandhu Chhotu Ram University of Science & Technology, Murthal, NASSCOM and FutureSkills Prime

Learn. Innovate.
Leverage AI. Lead the Future.

SR.NO.	TOPIC	PG.NO.
1	EXECUTIVE SUMMARY	1
2	OUTCOMES OF THE WORKSHOP	2
3	GLIMPSES OF THE WORKSHOP	3
4	PROCEEDINGS OF THE WORKSHOP	5
5	ANNEXURE	11

I. EXECUTIVE SUMMARY

The Haryana State Higher Education Council, in collaboration with SSC NASSCOM and its delivery partner SmartBridge Educational Services, organised a one-day Google Gen AI Workshop on “Empowering Educators with Generative AI & AI-Powered Academic Productivity” on 30th July 2026 at DCRUST, Murthal. The workshop was aimed at equipping faculty members and institutional SPOCs with practical knowledge and hands-on experience in the use of Generative AI for teaching, research, assessment, curriculum development and academic administration.

The workshop was graced by Prof. KC Sharma, Chairperson, HSHEC, Prof. SK Gakhar, Vice Chairperson, HSHEC, Prof. SP Singh, Vice Chancellor, DCRUST and Prof. RS Rathore, State Project Director, HSHEC. Mrs. Alka Sharma, Joint Director, Directorate of Higher Education, Haryana and Mrs. Priyanka Bisht, NASSCOM were also present in the workshop. The workshop witnessed participation from faculty members and institutional SPOCs representing universities and colleges across the State.

The workshop was attended by university faculty members and teachers from Model Sanskriti Colleges, to gain practical exposure to Generative AI and its applications in education. The participation of these academic stakeholders helped contextualise the workshop within the broader objective of strengthening digital competencies, enhancing teaching-learning practices and improving the employability-oriented skills of students. The workshop also complemented the objectives of the MoU signed between the Haryana State Higher Education Council (HSHEC) and NASSCOM for strengthening skill development, digital competency and employability among learners, thereby supporting the wider efforts towards technology-enabled and industry-relevant higher education in the State.

The workshop was structured in six technical sessions covering the fundamentals of Generative AI, Large Language Models (LLMs), Responsible AI, and Google's Generative AI learning pathway. Participants received hands-on training in prompt engineering through Google's Agent Platform, including prompt design exercises and challenge-based activities. The later sessions focused on the practical application of AI tools for lesson planning, curriculum design, research, academic documentation, assessment creation and academic workflow automation using platforms such as Google Gemini, NotebookLM, Google AI Studio, ChatGPT, Claude, Gamma, Canva AI and Perplexity AI. The sessions emphasised practical implementation through guided demonstrations and interactive exercises.

The workshop also provided exposure to the concepts of Generative AI, responsible AI practices and prompt engineering techniques. Faculty members gained practical skills to develop AI-assisted teaching materials, assessments, presentations and research outputs, while also learning to integrate AI tools into routine academic and administrative workflows. The programme is expected to contribute towards developing AI-ready educators and promoting the responsible adoption of Artificial Intelligence across higher education institutions in Haryana.

A key message emerging from the workshop was the need for faculty members to continuously update their knowledge and pedagogical competencies in response to rapid technological change. Participants were encouraged to apply the learning gained during the programme in their respective academic and professional contexts and to share their understanding with colleagues within their institutions.

The workshop provided a foundation for strengthening faculty capacity in the emerging area of Generative AI and for exploring its responsible integration into higher education. It also opened the scope for continued collaboration between the Haryana State Higher Education Council, higher education institutions and NASSCOM for organizing similar capacity-building initiatives and supporting the development of AI-enabled teaching and learning environments across the State.

II.OUTCOMES OF THE WORKSHOP

- The workshop enhanced the understanding of participating faculty members regarding the concepts, capabilities and practical applications of Generative AI in teaching, learning, research, assessment and academic workflows.

- Participants gained practical exposure to prompt design and advanced prompt engineering, enabling them to interact more effectively with AI tools and explore their application for specific academic tasks.

- The workshop highlighted the potential of AI-based productivity tools to reduce routine and repetitive work and support the preparation of teaching material, research-related work, assessment activities and other academic processes.

- The discussions reinforced the importance of responsible and ethical use of AI, with emphasis on human oversight, critical thinking, transparency and the need to distinguish between AI-assisted work and inappropriate academic use.

- The programme created a basis for participating faculty members to apply the learning in their respective institutions and share the knowledge and practical understanding gained with other faculty members.

- The workshop strengthened the scope for continued collaboration between the Haryana State Higher Education Council, higher education institutions and NASSCOM for organizing further capacity-building programmes on artificial intelligence.

- The Handbook of Academic AI Tools shared during the workshop provided participants with a continuing reference resource for exploring relevant AI tools and their academic applications.

III. GLIMPSES OF THE WORKSHOP












Google
Gen AI
Workshop
for Educators
From Understanding AI to
Transforming Teaching


UNIVERSITY OF SCIENCE
AND TECHNOLOGY, MURTHAL
DEENBANDHU CHHOTU RAM
2006


Workshop
for Educators


Google
Gen AI
Workshop
for Educators
From Understanding AI to
Transforming Teaching







IV. PROCEEDINGS OF THE WORKSHOP

ADDRESS BY PROF. K.C. SHARMA, CHAIRPERSON, HSHEC

1. Prof. K.C. Sharma, Chairperson, Haryana State Higher Education Council, addressed the participants and underlined the need for continuous enhancement of pedagogical competencies in the rapidly evolving educational environment. He observed that workshops on emerging areas such as artificial intelligence provides an important opportunity for faculty members to engage in continuous learning, upskilling and reskilling. He noted that while many participants might already be familiar with certain aspects of AI, the changing nature of technology required educators at every stage of their careers to remain learners and continuously update their knowledge and skills.

2. Prof. Sharma emphasized that artificial intelligence was already integrated into many aspects of everyday life, often through smartphones, computers and other digital platforms, whether users consciously recognized its presence or not. However, he stated that faculty members carried a greater responsibility in understanding and using these technologies meaningfully in the teaching-learning process. He stressed that the objective of education was not merely the transmission of information, but the creation of an engaging and joyful learning environment that encouraged students to develop interest, curiosity and deeper understanding in their chosen fields. AI, when used

appropriately, could assist educators in strengthening their pedagogical practices and improving learning experiences for students.

3. He also drew attention to the growing need to understand the potential misuse of AI, particularly in academic and research contexts. He observed that without adequate knowledge of the technology, it would be difficult for institutions and faculty members to identify or address its inappropriate use. Referring to concerns relating to research and academic writing, he highlighted the responsibility of supervisors and faculty members to distinguish between the legitimate use of AI as a supporting tool and the inappropriate presentation of AI-generated material as original scholarly work. He therefore stressed that faculty members needed to develop sufficient understanding of AI tools, their capabilities and their limitations in order to remain relevant and effective in the contemporary academic environment.

4. Prof. Sharma further observed that the traditional approach of relying on limited sources of knowledge was no longer sufficient in a rapidly changing world. Faculty members, needed to remain alert, adaptable and continuously engaged in learning. He emphasized that the usefulness of such workshops would ultimately depend on the willingness of participants to reflect upon how the knowledge gained could be applied for their own professional development and for the benefit of their students.

5. Highlighting the importance of maintaining human agency, he observed that artificial intelligence should serve as a tool to support and strengthen human intelligence rather than replace or control it. He informed the participants that NASSCOM had extended its support towards strengthening the competencies of faculty members in Haryana in the area of artificial intelligence. He further stated that the present workshop should not be viewed as a one-time intervention and that similar programmes could subsequently be organized at universities and colleges for wider participation of faculty members.

6. Prof. Sharma also referred to the collaboration between the Haryana State Higher Education Council and NASSCOM and encouraged participating institutions to explore opportunities for organizing similar capacity-building programmes. He stated that institutions could approach the Council for facilitating such initiatives and could also explore direct collaboration with NASSCOM, wherever appropriate. He concluded by reiterating that the ultimate purpose of such initiatives was to equip educators with improved pedagogical capabilities so that they could guide students through a more engaging, relevant and effective learning process. He encouraged the participants to carry forward the learning from the workshop to their respective campuses and explore ways of sharing it with their colleagues.

TECHNICAL SESSION BY MR. SUNDER R, THESMARTBRIDGE

7. The technical sessions of the Google Gen AI Workshop were conducted by Mr. Sundar from TheSmartBridge (education partner of NASSCOM), who introduced the

participants to the concepts, tools and practical applications of Generative Artificial Intelligence in the context of higher education and academic productivity. The brief of the session is given below:

8. Generative AI Foundations: The participants were introduced to the fundamental concepts of Generative AI, its capabilities and the broad areas in which such technologies can support teaching, learning, research and other academic activities.

9. Google Skill Learning Path and Design Prompts in Agent Platform Lab: An overview of the relevant Google learning pathways was provided and introduced the participants to the process of interacting with AI tools through prompts. The session explained the basic approach to designing prompts for obtaining relevant and useful outputs.

10. Design Prompts in Agent Platform Lab: The participants were further acquainted with the practical aspects of prompt design and the use of the Agent Platform Lab. The session explained how prompts could be structured and refined according to the intended task and expected output.

11. Advanced Prompt Engineering and Challenge Lab: The session was focused on more advanced approaches to prompt engineering. The participants were introduced to techniques for improving the clarity, context and specificity of prompts and were acquainted with challenge-based exercises relating to the application of these techniques.

12. AI Productivity Tools for Teaching and Research: The use of various AI-based tools that could assist educators and researchers in academic work were explained. The session covered their relevance for activities such as preparing teaching and learning material, organising information, supporting research-related tasks and improving overall academic productivity.

13. AI Productivity Tools for Assessment and Academic Workflows: The participants were introduced to the application of AI tools in assessment-related activities and routine academic workflows. The session explained the potential use of such tools in supporting the preparation and management of academic tasks and streamlining various processes.

14. During the workshop, a Handbook of Academic AI Tools was also shared with the participants as a reference resource containing information on relevant AI tools for academic use. A copy of the handbook has been placed in the Annexures to the workshop report.

ADDRESS BY PROF. S.K. GAKHAR, VICE CHAIRPERSON, HSHEC

15. Prof. S.K. Gakhar, Vice-Chairperson, Haryana State Higher Education Council, addressed the participants and reflected upon the significant changes that artificial intelligence was likely to bring to the world of work and education. He observed that AI was expected to transform several existing occupations while simultaneously creating new roles and opportunities, the nature of which could not yet be fully predicted. In this context, he emphasized that preparing young people to face an uncertain and rapidly changing future had become an important responsibility of the education system.

16. He stated that the role of teachers was also undergoing a significant transformation. With technology increasingly supporting content delivery and routine academic tasks, faculty members would need to strengthen their roles as mentors, counsellors, facilitators and guides. He observed that the growing use of AI in higher education, including its application in teaching and academic support internationally, required educators to continuously update their knowledge and adapt to changing academic practices.

17. Prof. Gakhar further noted that contemporary technological developments had demonstrated the increasing importance of artificial intelligence, data, algorithms and digital systems across different sectors. He stated that these developments highlighted the need to equip young people with the knowledge and competencies required to understand and responsibly engage with emerging technologies. He therefore described faculty capacity building in artificial intelligence as an important step towards preparing students for future academic and professional challenges.

18. Referring to the sessions conducted during the workshop on Generative AI and AI-powered academic productivity, Prof. Gakhar observed that the discussions had moved beyond a basic introduction to individual tools and had encouraged participants to reflect more deeply on the potential applications of AI in academic work. He noted that AI could assist faculty members in activities such as literature review, data analysis, drafting of research papers, preparation of course material and development of visual and other academic resources. He described AI as a potential “co-pilot” that could support educators and improve efficiency, rather than as a technology that should necessarily be viewed as a replacement for human capability.

19. At the same time, he strongly emphasized the importance of ethics, transparency, critical thinking and human oversight in the use of AI. He stated that while AI could provide information and support, human beings remained responsible for interpreting, analysing and validating the outputs generated by such systems. He urged the participants to ensure that AI did not control or automate their thinking, but instead served to augment human thought, creativity and decision-making.

20. Prof. Gakhar identified responsible use, ethical considerations and meaningful human intervention as essential principles for the adoption of AI in higher education. He

encouraged participants to use AI in a manner that reduced repetitive work and enabled them to devote greater attention to improving the quality of teaching, research and learning. He further urged them to explore the use of AI as a tool for mentorship, creativity and enhanced academic thinking rather than becoming dependent upon it.

21. Appreciating the active participation, curiosity and engagement of the faculty members, he thanked the organizers, experts, technical team and volunteers associated with the programme. He concluded by observing that the workshop should not be considered complete merely with the conclusion of the sessions or the distribution of certificates. Its real continuation, he stated, would begin when participants returned to their respective institutions and applied the learning gained during the workshop in their academic and professional work.

ADDRESS BY PROF. SRI PRAKASH SINGH, VICE CHANCELLOR, DEENBANDHU CHHOTU RAM UNIVERSITY OF SCIENCE AND TECHNOLOGY

22. Prof. Sri Prakash Singh, Vice-Chancellor, Deenbandhu Chhotu Ram University of Science and Technology, welcomed the experts, resource persons and faculty members from the State Funded Universities. He appreciated the collaborative initiative of the Haryana State Higher Education Council, the Department of Higher Education, Government of Haryana, NASSCOM and Google in organizing the workshop on Generative AI and AI-powered academic productivity.

23. He observed that major technological developments had historically transformed the nature and reach of education. Referring to the evolution from the printing press to computers and the internet, he stated that each technological advancement had expanded access to knowledge and introduced new possibilities for teaching and learning. Artificial intelligence, he observed, represented another significant technological transformation that was likely to influence education, research and the wider society in substantial ways.

24. Prof. Singh linked the emerging role of AI with the broader vision of developing India and the objectives of the National Education Policy 2020. He stated that education was required not only to impart knowledge but also to prepare learners with the capabilities necessary to meet the demands of the twenty-first century and contribute meaningfully to national and societal development. He emphasized that the role of teachers extended beyond classroom instruction and included nurturing scientific temper, strategic thinking, creativity, compassion, courage and the capacity for independent thought among students.

25. He noted that Generative AI had the potential to improve academic productivity by assisting educators in the preparation of lecture material, question papers, quizzes, case studies and other learning resources. By reducing the time required for certain routine and repetitive academic tasks, AI could enable teachers to devote greater

attention to mentoring students, supporting research and strengthening the overall teaching-learning process.

26. Prof. Singh emphasized that the objective should not be limited to teaching students about artificial intelligence. Educational institutions also needed to explore how AI could be responsibly integrated into pedagogy and used to improve learning across disciplines. He observed that AI had potential applications in fields ranging from engineering and science to humanities and other areas of study.

27. He however cautioned against uncritical dependence on AI. He stated that excessive reliance on AI without adequate understanding and independent thinking could adversely affect the development of students' own intellectual and creative abilities. The appropriate approach, therefore, was to use AI as a tool that supported creativity, critical thinking and innovation rather than replacing these essential human capabilities. He expressed the view that higher education institutions would increasingly need to develop the capacity to become AI-enabled learning environments, where technology strengthened the capabilities of teachers and students while maintaining the central role of human judgment and academic values.

VOTE OF THANKS BY PROF. M.N. MISHRA, DEAN ACADEMIC AFFAIRS, DCRUST

28. Prof. M.N. Mishra expressed his appreciation for the guidance provided by the leadership of the Haryana State Higher Education Council and acknowledged the relevance of the workshop for faculty members. He observed that the knowledge and practical understanding of AI tools gained during the programme would be useful in strengthening the professional capacities of teachers and enabling them to guide students in accordance with the evolving requirements of higher education and the objectives of NEP 2020.

29. He thanked Prof. S.K. Gakhar, Prof. K.C. Sharma, Prof. Rathore and other representatives of the Haryana State Higher Education Council, as well as the officials of the Department of Higher Education and the university leadership, for their support and guidance in organizing the workshop. He also acknowledged the efforts of the organizing and support teams involved in the successful conduct of the programme.

30. In his concluding remarks, Prof. Mishra expressed the hope that the participating faculty members would return to their respective institutions with an enriched understanding of artificial intelligence and its potential applications in teaching, learning and academic work. He thanked all the participants and organizers and emphasized the importance of carrying forward the learning gained during the workshop into future academic practice.

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ANNEXURE

EXECUTIVE HANDBOOK: TOP 50 AI TOOLS FOR FACULTY MEMBERS (2026)

EXECUTIVE HANDBOOK: TOP 50 AI TOOLS FOR FACULTY MEMBERS (2026)

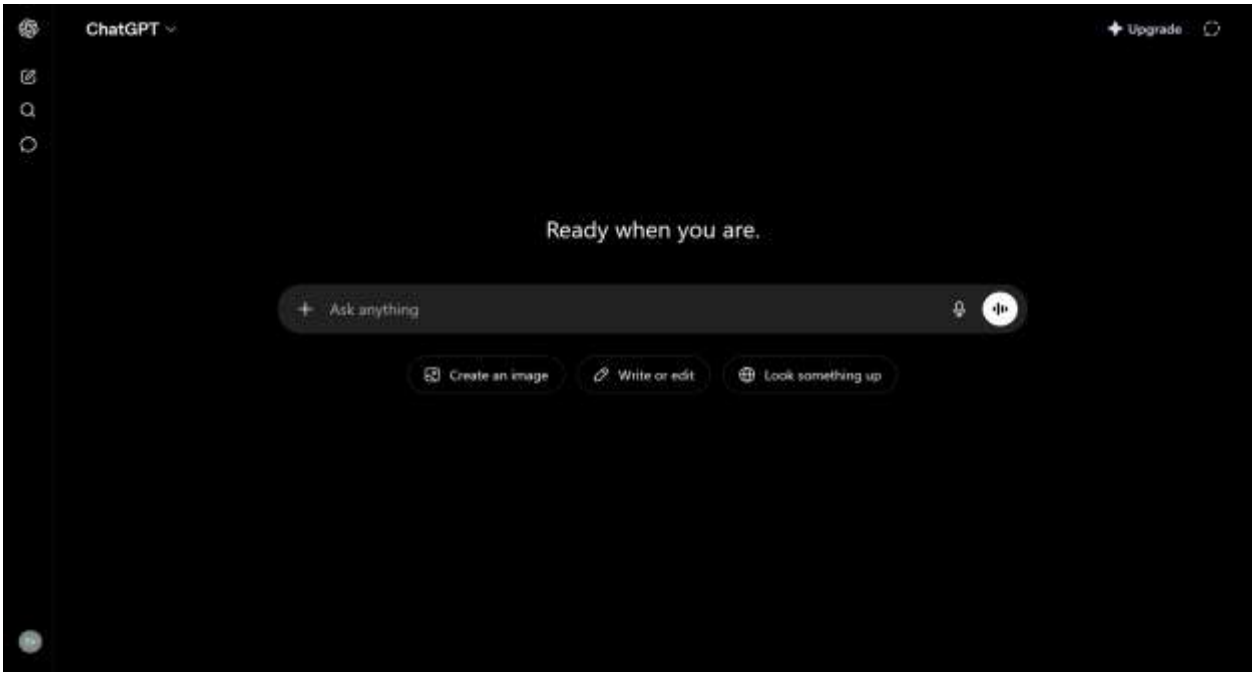
A Comprehensive Directory of Digital Solutions for Higher Education Academic Workflows

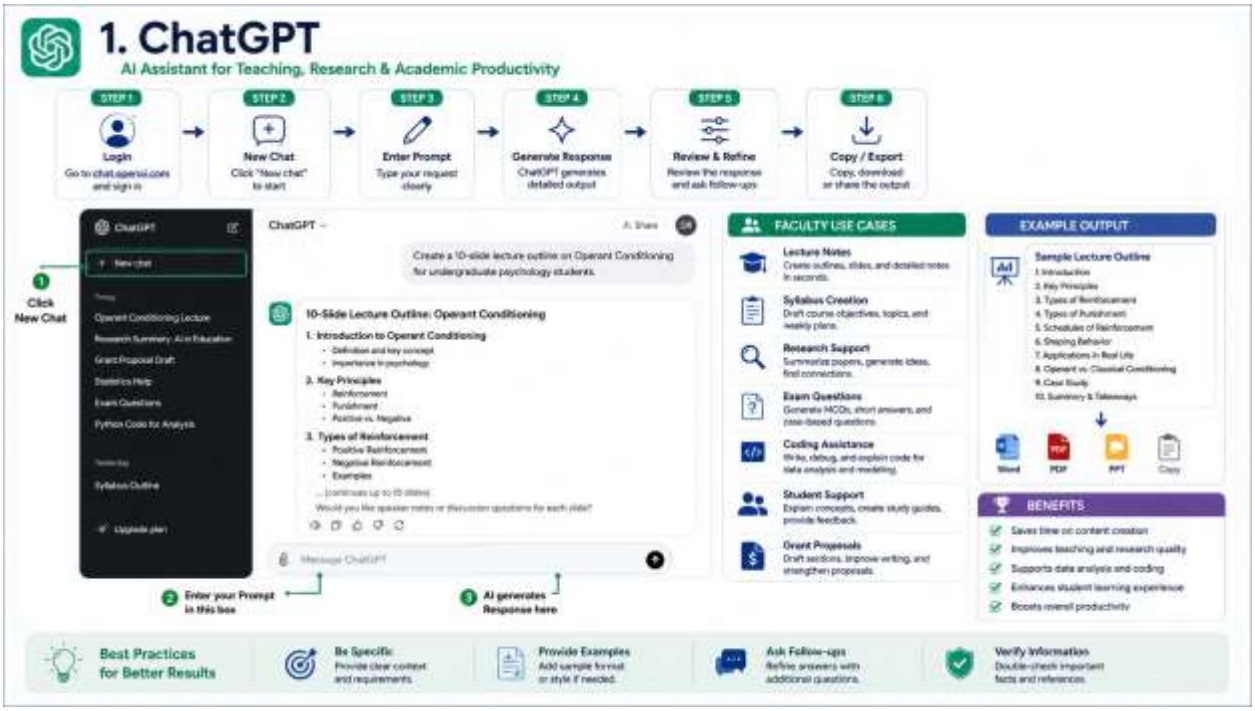
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SECTION 1: MASTER PLATFORMS & ALL-PURPOSE WORKSPACES

1. ChatGPT

- **Website:** https://chatgpt.com
- **Primary Purpose:**
  - Act as a multi-role assistant for teaching, research, content creation, and coding.
  - Draft lecture notes, syllabi, grant proposals, and exam questions.
  - Support students with tutoring, writing feedback, and concept explanations.
- **Quick Start Steps:**
  - Go to https://chatgpt.com and sign in (free account or Plus).
  - Click "**New chat**" in the left sidebar.
  - Type your request in the message box at the bottom (e.g., “Draft a 10-slide lecture outline on operant conditioning”).
  - Press **Enter** and wait for the response to appear in the chat.
  - Use the **copy**, **regenerate**, or **share** buttons below the answer if needed.
- **Screenshot Walkthrough:** Capture the main chat interface. Show the left sidebar with “New chat” button and conversation history, the central area displaying your prompt and the AI’s formatted reply (bullets, headings), and the bottom input box with the send icon. If using a custom GPT, show the GPT selector at the top.





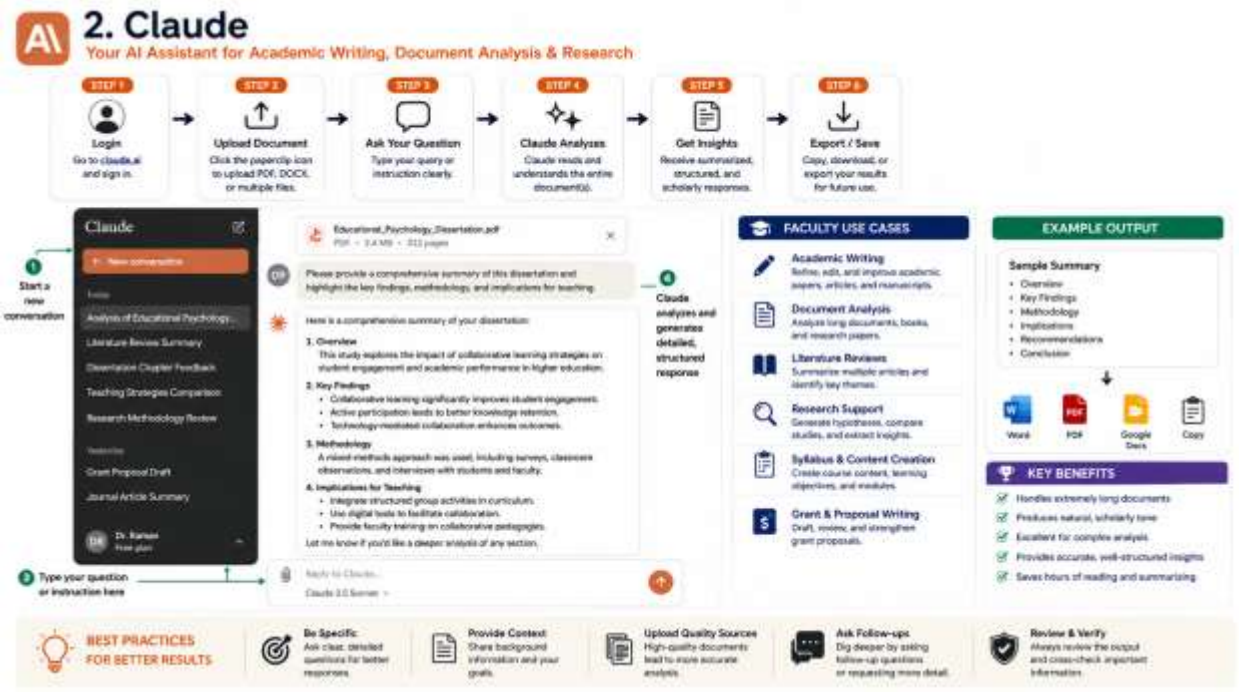
- **Key Advantages Over Competitors:**
  - One tool for drafting lectures, writing grant proposals, and coding scripts.
  - A strong reasoning engine handles multi-step logic problems accurately.
  - Reliable code generation for data analysis, statistics, and modeling.
  - Vast library of custom GPTs lets you tailor the assistant to your syllabus.
  - Widest adoption means the lowest learning curve for faculty and students.
- **Pricing:** Free + Paid

2. Claude

- **Website:** https://claude.ai

- **Primary Purpose:**
    - Excel at academic writing, document analysis, and long-form content.
    - Process entire dissertations, book manuscripts, or multiple journal articles at once.
    - Provide nuanced editing, summarization, and scholarly tone refinement.
- **Quick Start Steps:**
    - Visit https://claude.ai and log in.
    - Click "**Start a conversation**" or select an existing chat.
    - Type your query or click the paperclip icon to upload a PDF/DOCX for analysis.
    - Press **Enter** – Claude will reference the file if attached.
    - Review the response, and use the "**Retry**" button if you want an alternative version.
- **Screenshot Walkthrough:** Show the clean, minimal interface. Include the file upload area (paperclip) and a sample chat where a document is attached, with the answer displaying structured summarization. Highlight the long context window capability by showing a large document being discussed.

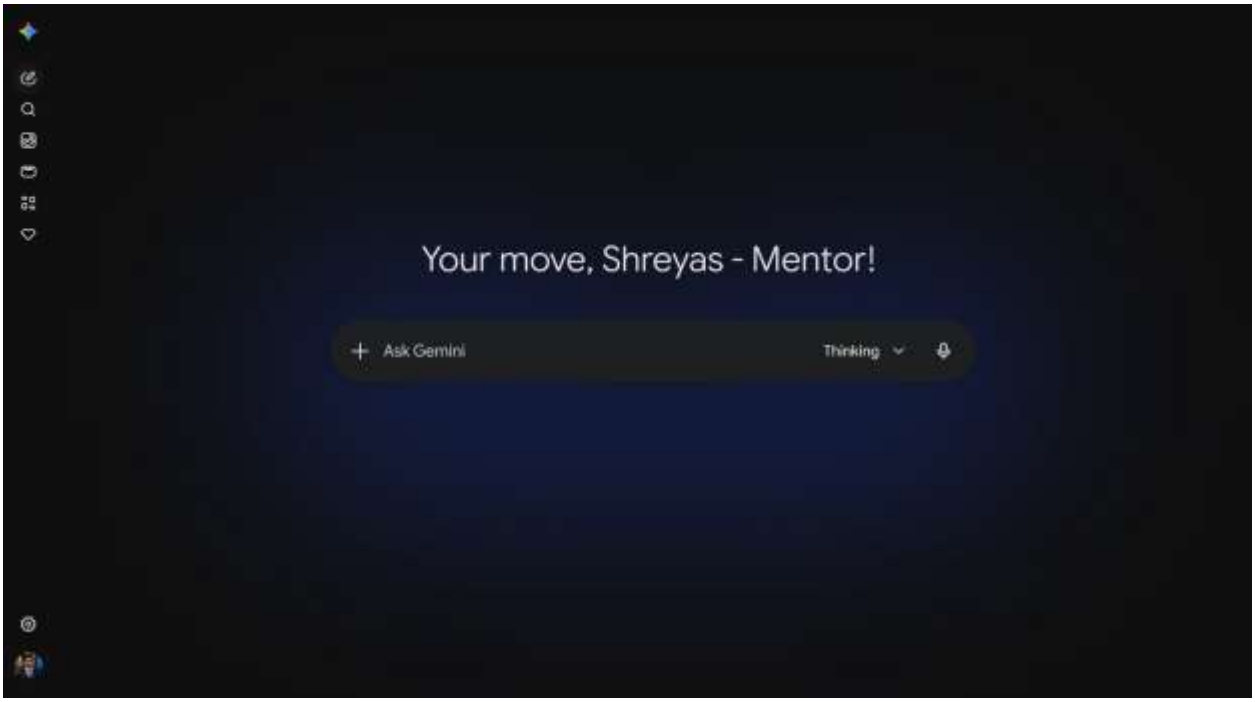




- **Key Advantages Over Competitors:**
  - Handles entire dissertations or book manuscripts in a single prompt.
  - Produces a natural, scholarly tone that needs minimal editing.
  - Summarises dense journal articles into clear, structured briefs.
  - Extremely large context windows allow side-by-side comparison of multiple papers.
  - Clean, distraction-free interface built for deep reading and analysis.
- **Pricing:** Free + Paid

3. Gemini

- **Website:** https://gemini.google.com
- **Primary Purpose:**
  - Enhance productivity across the Google Workspace ecosystem.
  - Draft, edit, and summarize directly inside Google Docs, Sheets, and Slides.
  - Leverage multimodal capabilities to interpret images, audio, and charts.
- **Quick Start Steps:**
  - Go to https://gemini.google.com while signed into your Google account.
  - Type a prompt or click the camera/upload icon to attach an image or file from Drive.
  - Press **Enter** to get a response.
  - For Docs integration, open a Google Doc, click **"Help me write"** (if enabled) and use Gemini inline.
  - Use the **Google Drive** extension to ask questions directly about your files.
- **Screenshot Walkthrough:** Capture the Gemini web app showing a multimodal prompt (image + text). Then show the Google Docs sidebar with Gemini suggesting edits. Highlight the "@" menu that references Drive files.



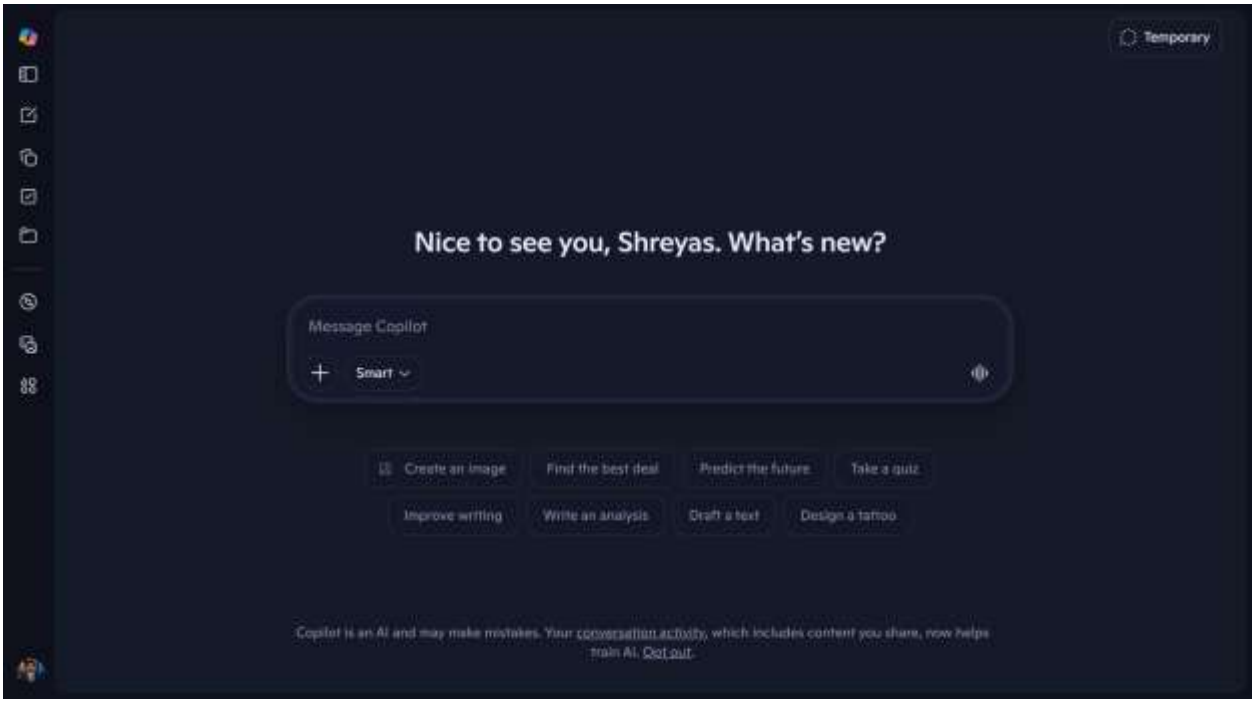


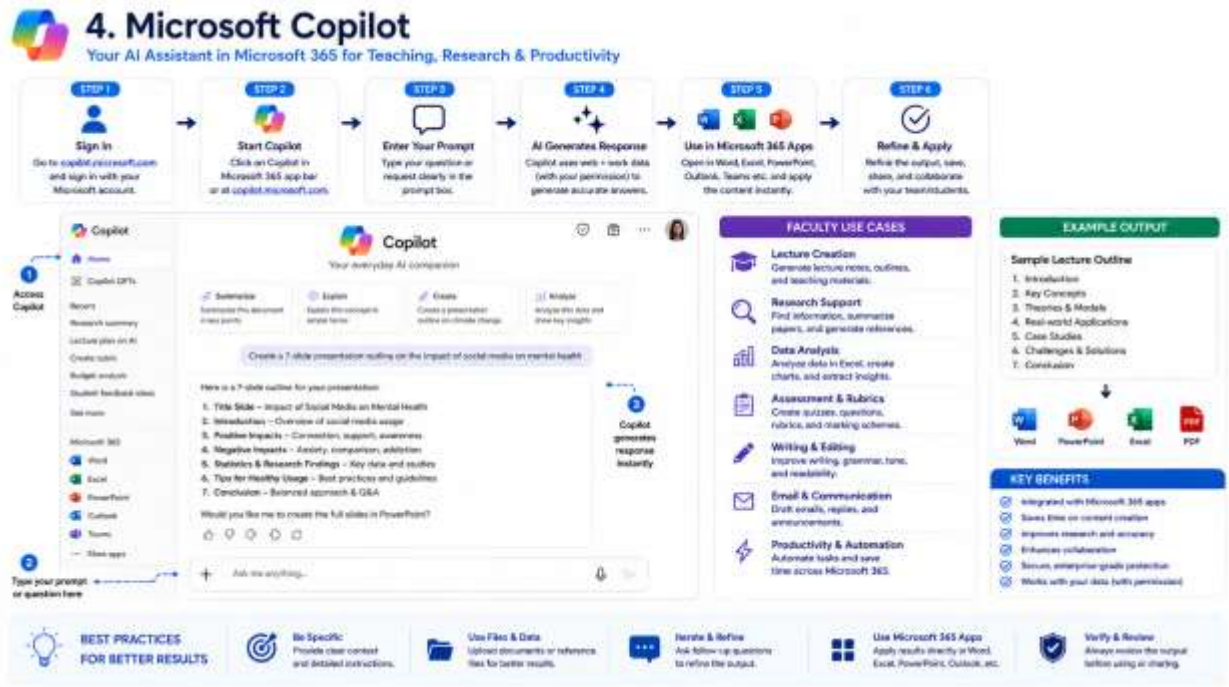
- **Key Advantages Over Competitors:**
  - Reads and writes directly inside Google Docs, Sheets, and Slides.
  - Multimodal — can interpret charts, photos, and audio alongside text.
  - Instant access to your entire Google Drive for file-grounded answers.
  - Live co-editing support when collaborating on department documents.
  - Slide generation from an outline cuts lecture-deck time in half.
- **Pricing:** Free + Paid

4. Microsoft Copilot

- **Website:** https://copilot.microsoft.com

- **Primary Purpose:**
    - Embed AI deeply within the Microsoft 365 suite used by most universities.
    - Automate complex data work in Excel, design in PowerPoint, and writing in Word.
    - Facilitate meeting note-taking and action tracking in Teams.
- **Quick Start Steps:**
    - Open Word, Excel, PowerPoint, or Teams. Sign in with your institutional account.
    - Click the **Copilot** icon in the ribbon or sidebar.
    - Describe what you want (e.g., “Create a pivot table from this data,” “Summarize this email thread”).
    - The AI processes your request inside the document/meeting.
    - Review and refine the output, then keep or discard.
- **Screenshot Walkthrough:** Show Copilot pane open in Excel with a natural language request and a generated chart. For Teams, display the meeting recap with action items. Emphasize the “Copilot” button placement.

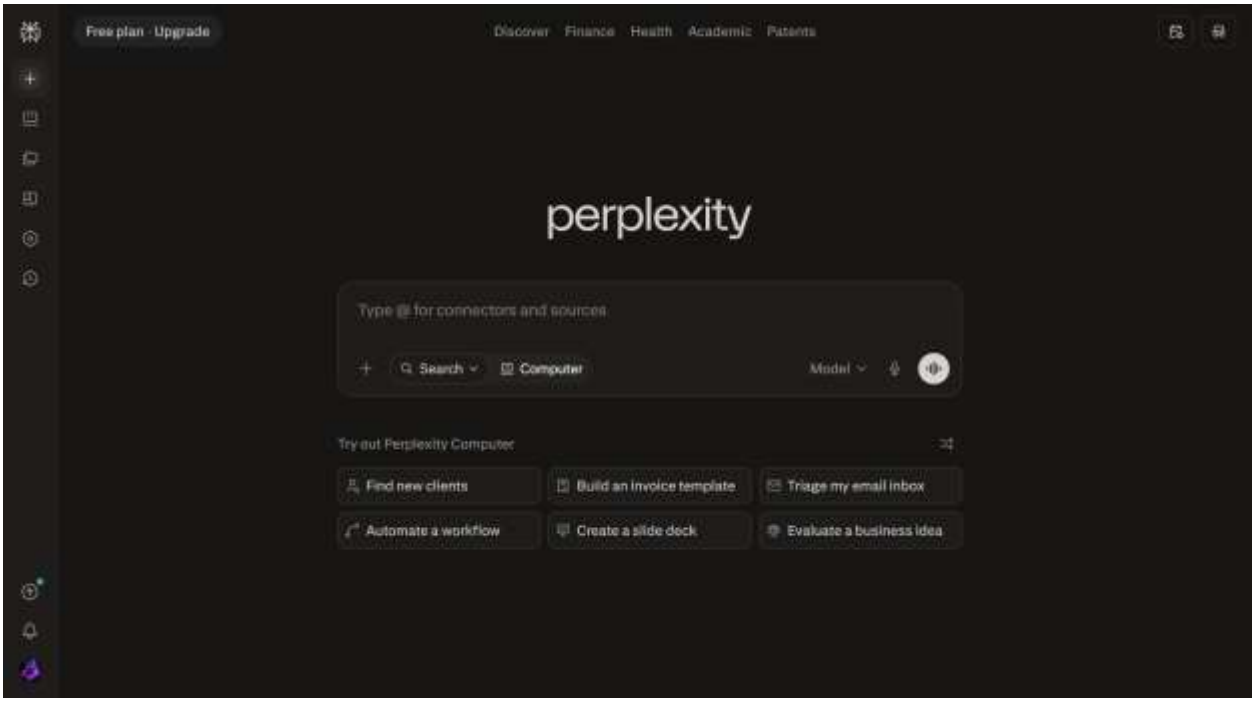




- **Key Advantages Over Competitors:**
  - Embedded natively in Word, Excel, PowerPoint, and Teams.
  - Excel integration automates complex formulas, pivot tables, and charts.
  - PowerPoint Designer auto-formats slides for a polished lecture look.
  - Enterprise-grade security meets university data protection requirements.
  - Teams meeting summaries capture action items and decisions automatically.
- **Pricing:** Free + Paid

5. Perplexity

- **Website:** https://perplexity.ai
- **Primary Purpose:**
  - Serve as a research-first search engine that cites every source.
  - Conduct real-time literature scans and fact-finding for lectures and papers.
  - Eliminate hallucination risks by grounding answers in clickable references.
- **Quick Start Steps:**
  - Go to https://perplexity.ai (no login required for basic use).
  - Set the **Focus** to “Academic” if you want peer-reviewed sources.
  - Type a question in the search bar (e.g., “Latest meta-analysis on flipped classroom effectiveness”).
  - Press **Enter** – Perplexity responds with a detailed answer and numbered citations.
  - Click any citation to open the source page in a new tab.
- **Screenshot Walkthrough:** Show the search bar with “Academic” focus selected, the answer with inline citation numbers, and the sources panel on the right. Capture a follow-up question to demonstrate conversational threading.



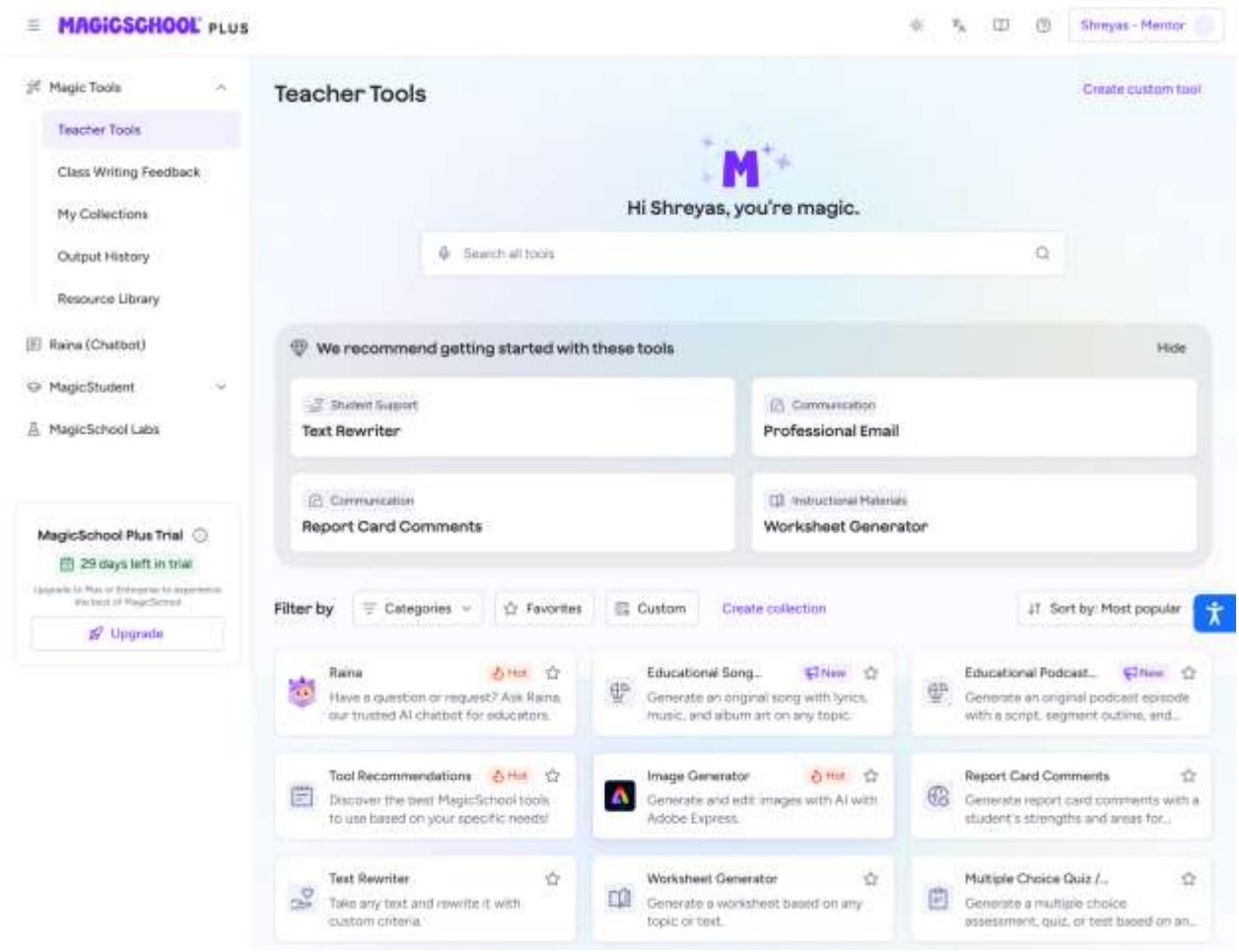


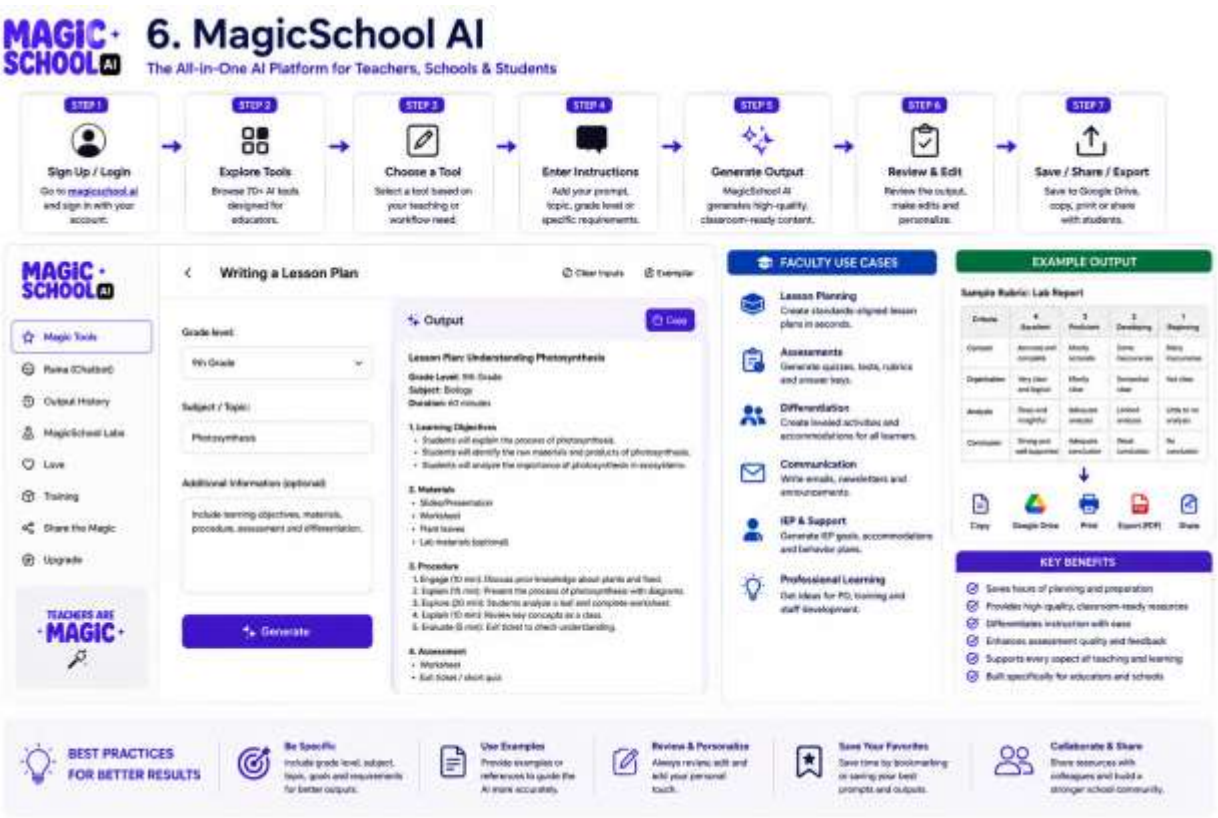
- **Key Advantages Over Competitors:**
  - Every factual claim comes with a clickable, verifiable source link.
  - Real-time web search with academic filters for peer-reviewed content.
  - Rapid, iterative questioning uncovers angles for a literature review.
  - Source transparency virtually eliminates hallucinations in research tasks.
  - Cuts the initial scouting phase of a new topic from hours to minutes.
- **Pricing:** Free + Paid

SECTION 2: LESSON PLANNING & CLASSROOM DESIGN ASSISTANTS

6. MagicSchool AI

- **Website:** https://magicschool.ai
- **Primary Purpose:**
    - Provide a dedicated educator platform for curriculum and lesson design.
    - Generate rubrics, worksheets, IEPs, and differentiated activities in seconds.
    - Save hours per week on administrative preparation while upholding pedagogy.
- **Quick Start Steps:**
    - Navigate to https://magicschool.ai and sign up for a free educator account.
    - Browse the **"Tools"** library (60+ templates) and select one (e.g., Lesson Plan Generator).
    - Fill in the required fields (subject, grade level, topic) in the form.
    - Click **"Generate"** – the AI produces a ready-to-use plan in moments.
    - Copy the output, download as PDF, or save to your account.
- **Screenshot Walkthrough:** Show the tools dashboard grid of templates. Then display a filled-out generator form and the resulting output (like a 5-E lesson plan) with clear sections. Highlight the "copy" and "save" buttons.


MAGICSCHOOL PLUS
Shreyas - Mentor
Magic Tools
Teacher Tools
Class Writing Feedback
My Collections
Output History
Resource Library
Raina (Chatbot)
MagicStudent
MagicSchool Labs
MagicSchool Plus Trial
29 days left in trial
Upgrade
Teacher Tools
Create custom tool
Hi Shreyas, you're magic.
Search all tools
We recommend getting started with these tools
Hide
Student Support
Text Rewriter
Communication
Professional Email
Communication
Report Card Comments
Instructional Materials
Worksheet Generator
Filter by
Categories
Favorites
Custom
Create collection
Sort by: Most popular
Raina
Hot
Have a question or request? Ask Raina, our trusted AI chatbot for educators.
Educational Song...
New
Generate an original song with lyrics, music, and album art on any topic.
Educational Podcast...
New
Generate an original podcast episode with a script, segment outline, and...
Tool Recommendations
Hot
Discover the best MagicSchool tools to use based on your specific needs!
Image Generator
Hot
Generate and edit images with AI with Adobe Express.
Report Card Comments
Generate report card comments with a student's strengths and areas for...
Test Rewriter
Take any text and rewrite it with custom criteria.
Worksheet Generator
Generate a worksheet based on any topic or text.
Multiple Choice Quiz /...
Generate a multiple choice assessment, quiz, or test based on an...


MAGIC SCHOOL AI
6. MagicSchool AI
The All-in-One AI Platform for Teachers, Schools & Students
STEP 1
Sign Up / Login
Go to magicschool.ai and sign in with your account.
STEP 2
Explore Tools
Browse 70+ AI tools designed for educators.
STEP 3
Choose a Tool
Select a tool based on your teaching or workflow need.
STEP 4
Enter Instructions
Add your prompt, topic, grade level or specific requirements.
STEP 5
Generate Output
MagicSchool AI generates high-quality, classroom-ready content.
STEP 6
Review & Edit
Review the output, make edits and personalize.
STEP 7
Save / Share / Export
Save to Google Drive, copy, print or share with students.
Writing a Lesson Plan
Output
Generate
FACULTY USE CASES
Lesson Planning
Assessments
Differentiation
Communication
IEP & Support
Professional Learning
EXAMPLE OUTPUT
KEY BENEFITS
BEST PRACTICES FOR BETTER RESULTS
Be Specific
Use Examples
Review & Personalize
Save Your Favorites
Collaborate & Share

- **Key Advantages Over Competitors:**
    - Purpose-built for educators, not a repurposed chatbot.
    - Over 60 ready-to-use templates: lesson plans, rubrics, IEPs, and more.
    - Generates classroom-ready materials that respect pedagogical best practices.
    - Cuts weekly prep time by an average of 5–7 hours.
    - Compliance with FERPA and COPPA built into the platform.
- **Pricing:** Free + Paid

7. Eduaide AI

- **Website:** https://eduaide.ai
- **Primary Purpose:**
    - Streamline instructional design and course mapping workflows.
    - Align lesson outputs to specific learning objectives and standards.
    - Differentiate materials for diverse student readiness levels with text levelers.
- **Quick Start Steps:**
    - Go to https://eduaide.ai and create a free account.
    - Start a new project and choose a module (e.g., “Lesson Plan” or “Unit Planner”).
    - Input your topic, standards, and learning goals.
    - Use the **“Level Text”** option if you need readings at varied Lexile levels.
    - Export the finished plan to your LMS or Google Docs.
- **Screenshot Walkthrough:** Capture the project builder showing alignment fields (standards, objectives). Then show a side-by-side comparison of the same text at different reading levels. Highlight the export integration icons.

eduaide

- Dashboard
- Lesson Planning
- Printables
- Assessment Builder
- Workspace
- History

Upgrade to Pro
Go Unlimited

- Support
- Leave Feedback
- Frequently Asked Questions

User
shreyas@thesmartbridg...

What do you want to create?

Eduaide Academy

Lesson Planning (80+ TOOLS)
Create high-quality instructional materials, including lesson plans, planning supports, projects, and more.

Worksheets
Create practice, review, and skill-building worksheets for any lesson.

Graphic Organizers (POPULAR)
Create visual organizers that help students plan, sort, and connect ideas.

Educational Games
Create printable games and classroom activities that reinforce learning.

Assessments (NEW)
Create checks for understanding and assessments with 9 questio...

Subject Essentials

Early Childhood · Social Studies · Science · Math · ELA · Speech · CTE · Arts

Featured Resources



Short Answer Worksheet
Create a 12-question short-answer worksheet with progressive difficulty and a teacher guide.
Create Now



1-Minute Probes
Generate a variety of possible 1 Minute Probes / Bell Ringers to engage students before or at the beginning of class.
Create Now



Marking the Text
Generate a text annotation organizer with a short passage and questions for close reading and analysis.
Create Now



KWL Chart
Generate a KWL chart with prior knowledge prompts and space for what students Want and Learned.
Create Now



Bingo
Create a 5×5 Bingo board with vocabulary and call-sheet review questions aligned to a curriculum-base...
Create Now



Socratic Seminar
Create Socratic Seminar activities with tiered questions, discussion norms, and reflection prompts.
Create Now

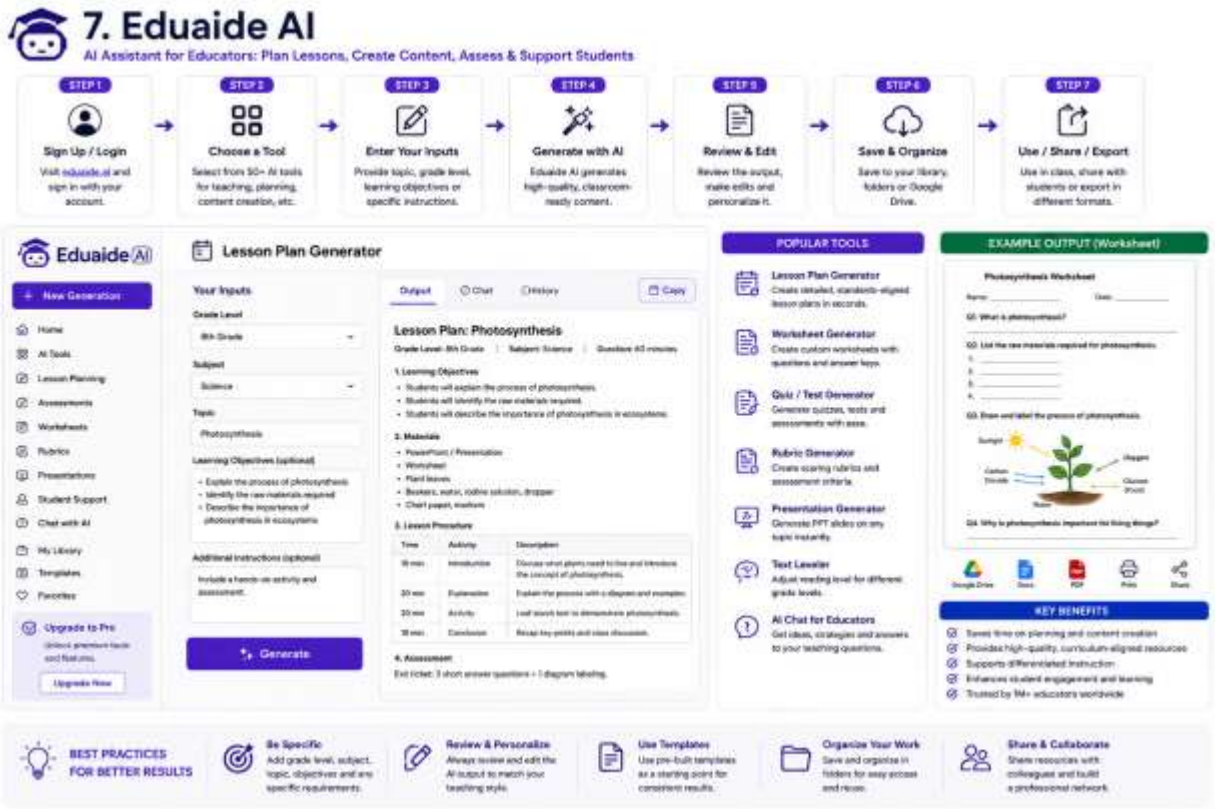


Jeopardy Style
Create a Jeopardy-style review board with tiered questions and curriculum-aligned categories.
Create Now



Quiz, Quiz, Trade
Create topic-specific flashcards for partner review where students quiz, get feedback, and trade cards.
Create Now

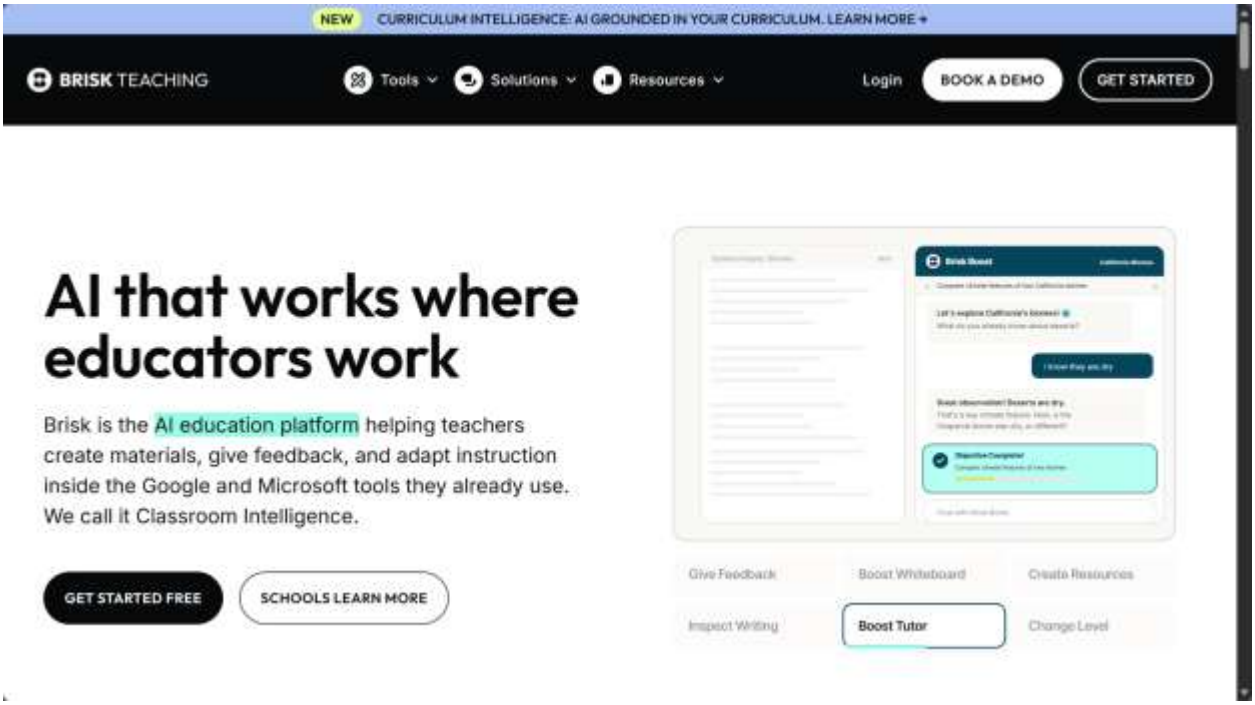
View All Resources

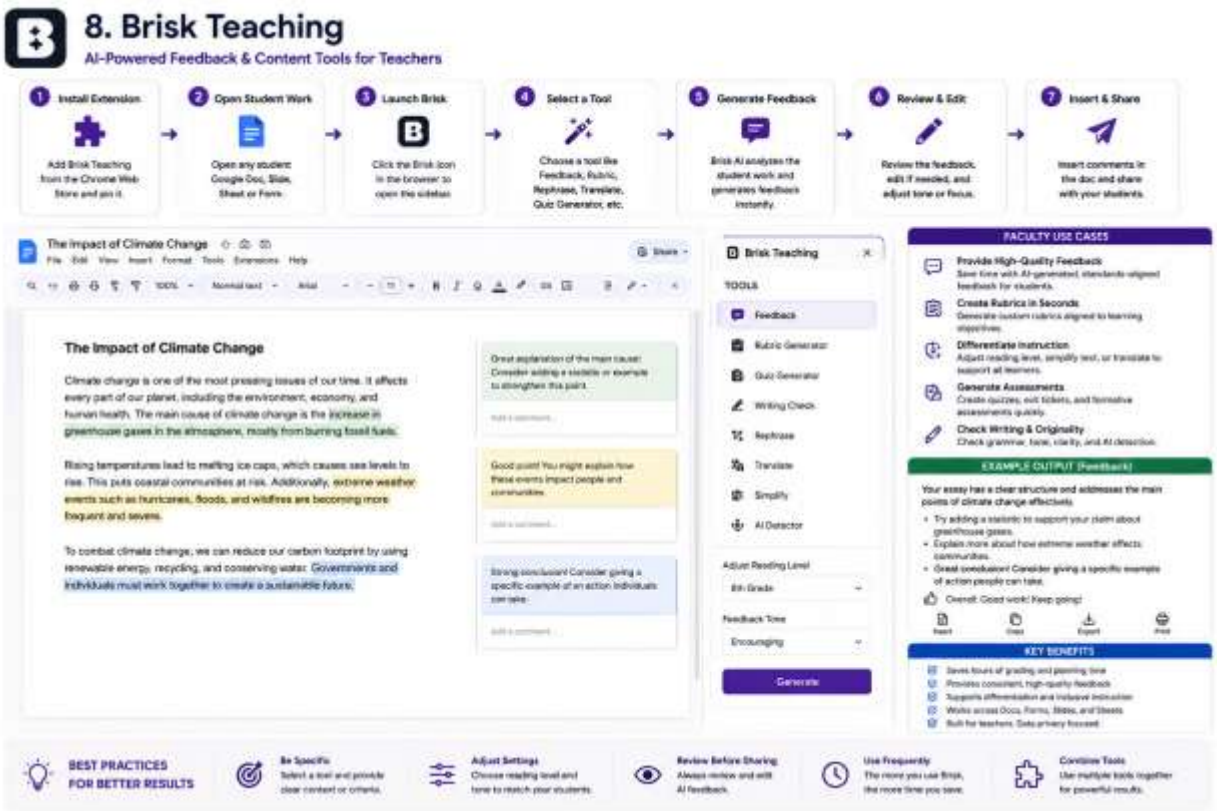


- **Key Advantages Over Competitors:**
  - Aligns lesson outputs with your institution's learning objectives.
  - Text leveler adjusts readings for beginner through advanced students.
  - Workflow mirrors a teacher's actual planning sequence.
  - Consistent output format makes it easy to build a full course map.
  - Gentle learning curve — new users are productive within the first hour.
- **Pricing:** Freemium

8. Brisk Teaching

- **Website:** https://briskteaching.com
- **Primary Purpose:**
  - Optimize grading and deliver high-quality student feedback inside Google Docs.
  - Automate repetitive rubric comments while keeping the teacher in control.
  - Reduce the time required for assessment without sacrificing personalization.
- **Quick Start Steps:**
  - Install the Brisk Teaching Chrome extension from the Chrome Web Store.
  - Open a student's Google Doc (assignment).
  - Click the **Brisk icon** in the bottom-right corner of the screen.
  - Choose an action: "Give Feedback," "Create Rubric," or "Level Text."
  - Review the AI-generated comments, edit if necessary, then click **"Insert"**.
- **Screenshot Walkthrough:** Show the Google Doc with the Brisk widget open. Display a highlight in the document with a suggested comment. Show the feedback panel where the teacher can approve/modify suggestions.

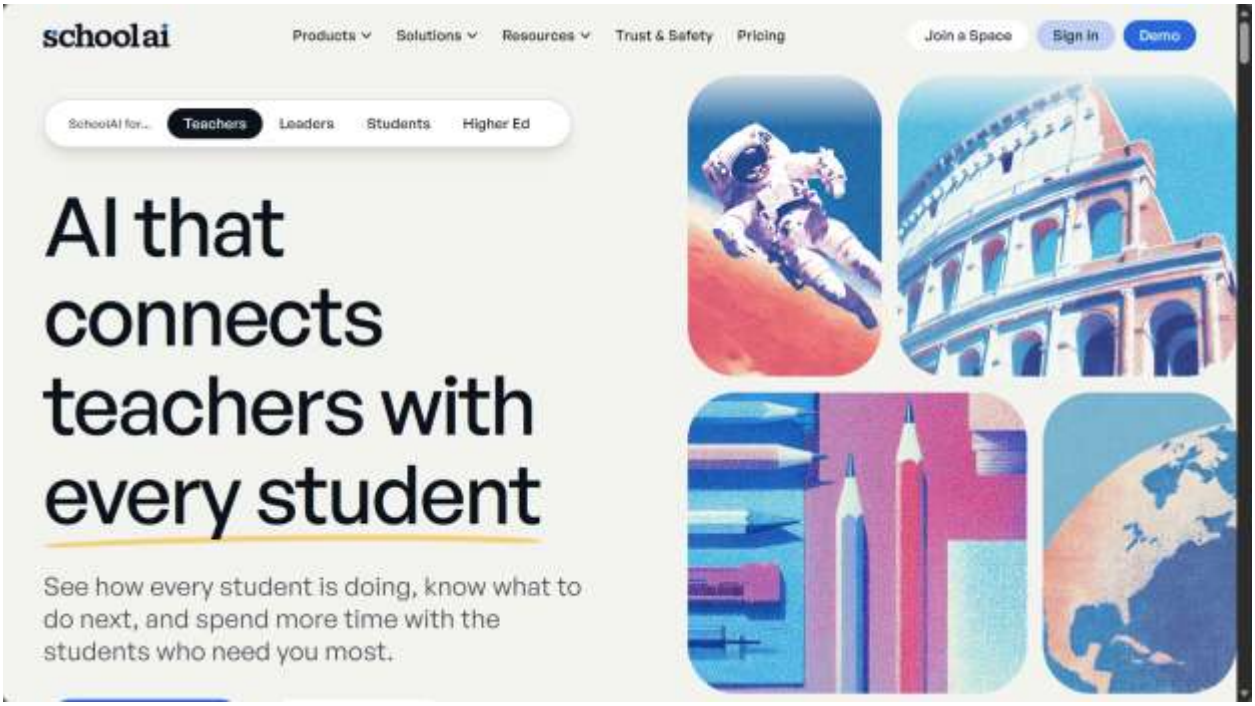


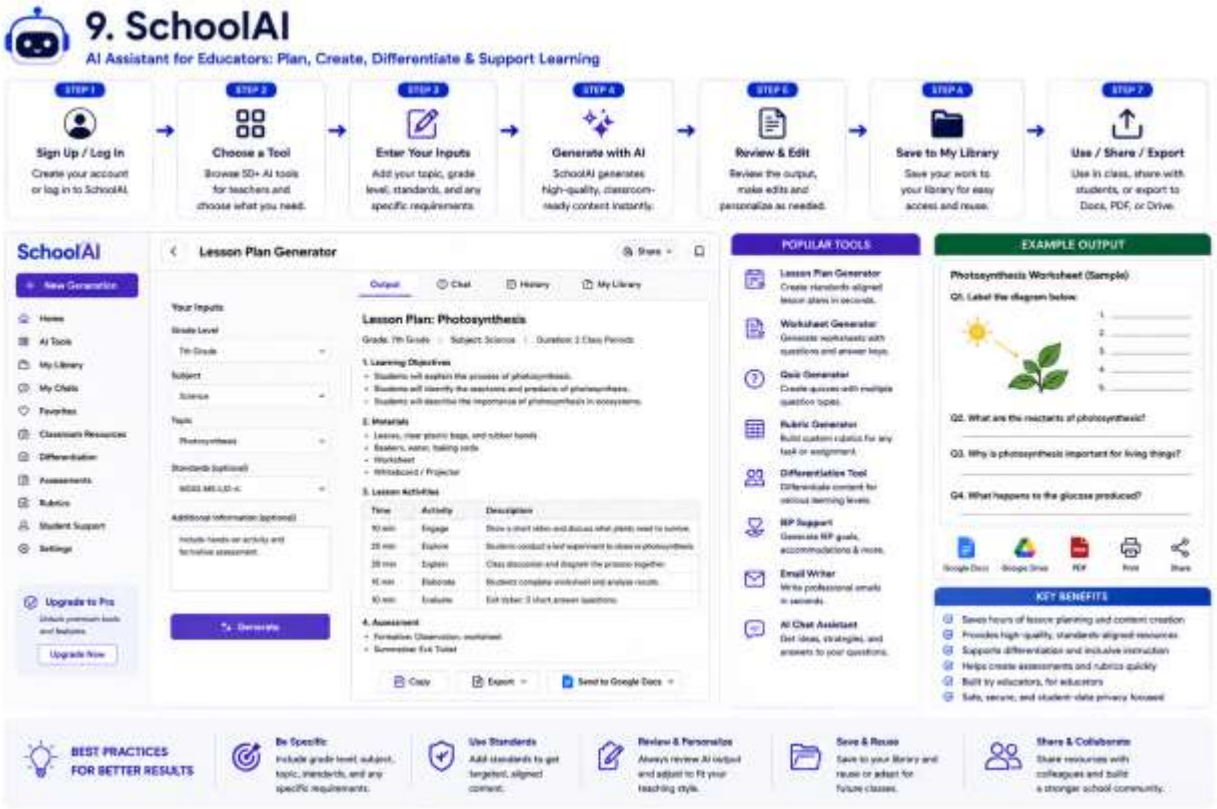


- **Key Advantages Over Competitors:**
  - Works inside Google Docs — no need to leave your students' essays.
  - Generates feedback comments tied to specific passage highlights.
  - Chrome extension installs in seconds with no IT ticket required.
  - Massively reduces time spent on repetitive rubric comments.
  - Allows you to review and tweak AI suggestions before they reach students.
- **Pricing:** Free + Paid

9. SchoolAI

- **Website:** https://schoolai.com
- **Primary Purpose:**
    - Create secure, monitored AI spaces where students can explore concepts.
    - Provide real-time oversight of student interactions with AI tutors.
    - Boost engagement for shy or quiet students in a safe, controlled environment.
- **Quick Start Steps:**
    - Sign up at https://schoolai.com and create a class.
    - Invite students via a code or link (no student accounts required).
    - Launch a **"Space"** — a themed AI chat (e.g., "Socratic Tutor," "Historical Figure").
    - Monitor all student conversations in real time from the teacher dashboard.
    - Review transcripts afterward and download insights.
- **Screenshot Walkthrough:** Show the teacher dashboard with live tiles of student chats. Click into one tile to show the AI conversation. Highlight the "pause" or "redirect" buttons for teacher intervention.





- **Key Advantages Over Competitors:**
  - Create a secure, sandboxed AI space where students can explore safely.
  - Real-time teacher dashboard shows exactly what each student is asking.
  - Boosts participation among quiet students who rarely speak in lecture.
  - Designed from day one with K-12 and higher-ed safety compliance.
  - Quick to deploy — set up a class space in under five minutes.
- **Pricing:** Freemium

10. Curipod

- **Website:** https://curipod.com
- **Primary Purpose:**
  - Transform passive slide decks into interactive, discussion-driven lessons.
  - Embed live polls, word clouds, and open-ended responses automatically.
  - Generate a full engaging session from a single topic prompt in minutes.
- **Quick Start Steps:**
  - Visit https://curipod.com and log in with Google or Microsoft.
  - Click **"Create a Curipod"** and select a template or "AI Generate."
  - Type a topic (e.g., "Climate change ethics") — AI builds a complete interactive lesson.
  - Present it live; students join via a pin code at curi.live.
  - Responses appear instantly on screen; download a report after the session.
- **Screenshot Walkthrough:** Show the lesson creation screen with the AI input box. Then show the presenter view with a live word cloud forming and a student response list below. Highlight the join code display.

Core Charter School
Free Plan

5 teaching sessions left this week

2 per week · resets Sun, Jun 14

3 school plan trials left

One-time trial · doesn't renew

- Home
- My Lessons
- My Reports
- Your school usage

- Learn More
- Settings
- Trash

Curipod

Hi Shreyas, what do you want to do?

English | 4th Grade

Easy Ways to Get Started



CAASPP Reading & Writing Practice
Instant AI feedback and CAASPP-aligned scoring for Short Answer and Performance Task questions



ELPAC Reading & Writing Practice
Instant AI feedback and scoring aligned to the ELPAC rubric



Quick Writes
5-min prompts get students excited to write—with peer voting and instant AI feedback



Draw and Vote
Students draw their answers to your question, then vote on each other's responses



Revision & Editing Practice
15-min activity where students spot and fix errors in sentences. Practicing word choice, clarity, and construction.



Claim, Evidence & Reasoning
Practice finding evidence and building reasoning to support a claim



Vocabulary Practice for ELA
Turn your own list of words into gamified vocabulary practice



Word Wizard - Spelling Practice
5-min fast-paced activity where students race to build as many words as possible.



Prefix, Suffix & Root Wizard
Morphology practice aligned to your scope and sequence



Take a Stand - Grammar Practice
10-minute activity where students take a stand on a prompt and explain their thinking using a specific grammar skill.



Phonics Wizard
Quick phonics practice aligned to your scope and sequence

Beyond the Basics



Mini Lesson (10-30 min)
A short interactive lesson focused on practice and instant AI feedback



Novel Study Lesson (30-60 min)
An interactive lesson on your reading, with discussion and instant AI feedback aligned to your standards



Curi-Quiz for ELA
Multi-modal quiz with 5 questions for review



Writing Escape Rooms
20 min activities where students read and write to influence the outcome of a story



Rubric-Based AI Feedback
Instant AI feedback on student answers aligned to your rubric



Turn Your Passage Into a Lesson
An interactive lesson with instant AI feedback—all aligned to your passage

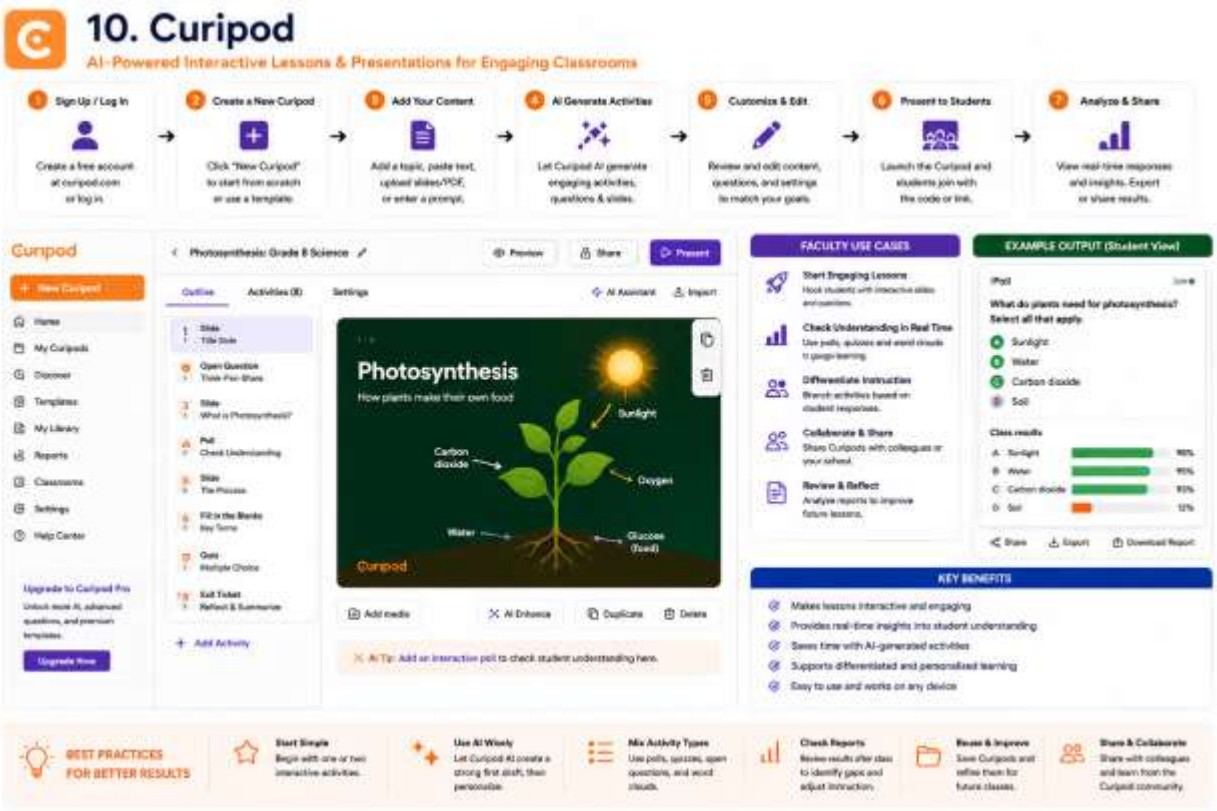


Create Your Own Lesson from Blank
Add content slides and your favorite Curipod activities in any order you choose



Reading & Writing Skill Practice
Engaging activities with multiple rounds of practice and instant AI feedback

View all →

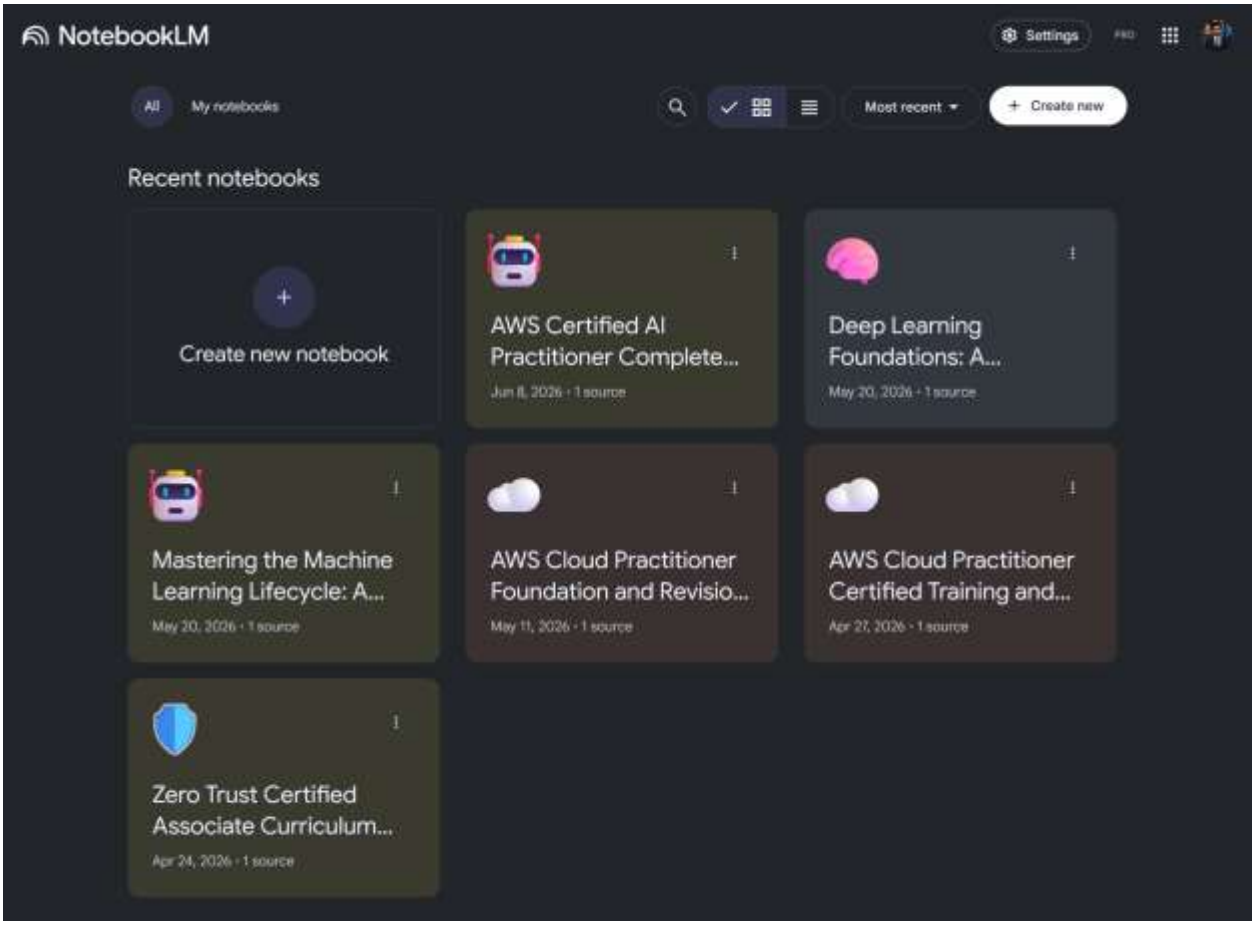


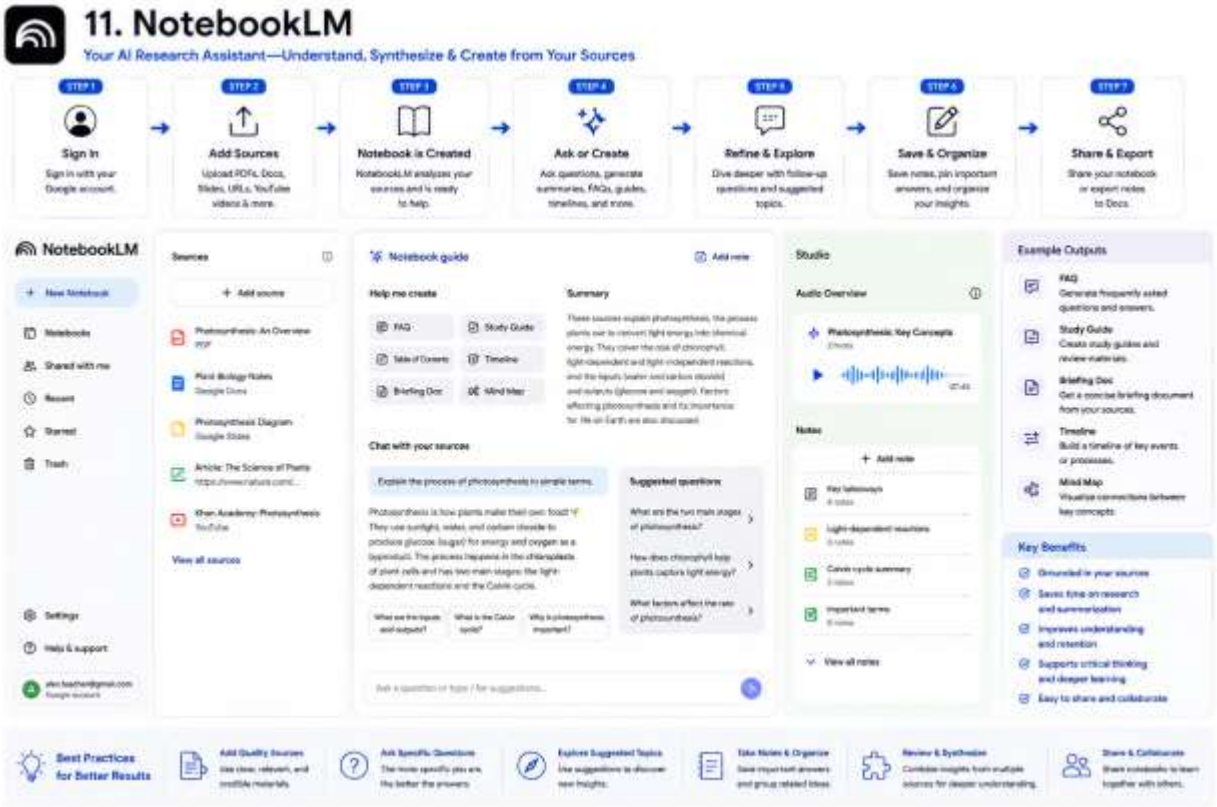
- **Key Advantages Over Competitors:**
    - Turns a passive lecture into a live, participatory experience.
    - Polls, word clouds, and open-ended responses embedded automatically.
    - Generates a full interactive lesson from a single topic prompt.
    - Works especially well in large-enrollment introductory courses.
    - Students stay on-task because they know their voice will be heard.
- **Pricing:** Freemium

SECTION 3: SYSTEMATIC RESEARCH & LITERATURE ANALYSIS

11. NotebookLM

- **Website:** https://notebooklm.google
- **Primary Purpose:**
  - Synthesize information exclusively from user-provided source documents.
  - Generate summaries, outlines, and FAQ documents grounded with inline citations.
  - Support lecture prep and seminar design by isolating key themes across files.
- **Quick Start Steps:**
  - Go to https://notebooklm.google and sign in with Google.
  - Create a new notebook and upload your source documents (PDFs, Google Docs, text).
  - The tool auto-generates a summary, study guide, and FAQ.
  - Click any citation number to jump to the exact passage in your source.
  - Use the “Ask a question” box to query the notebook; answers draw only from your files.
- **Screenshot Walkthrough:** Show the notebook dashboard with uploaded sources on the left, the auto-generated summary in the center, and a highlighted citation pop-up that displays the original text. Capture the Q&A section at the bottom.

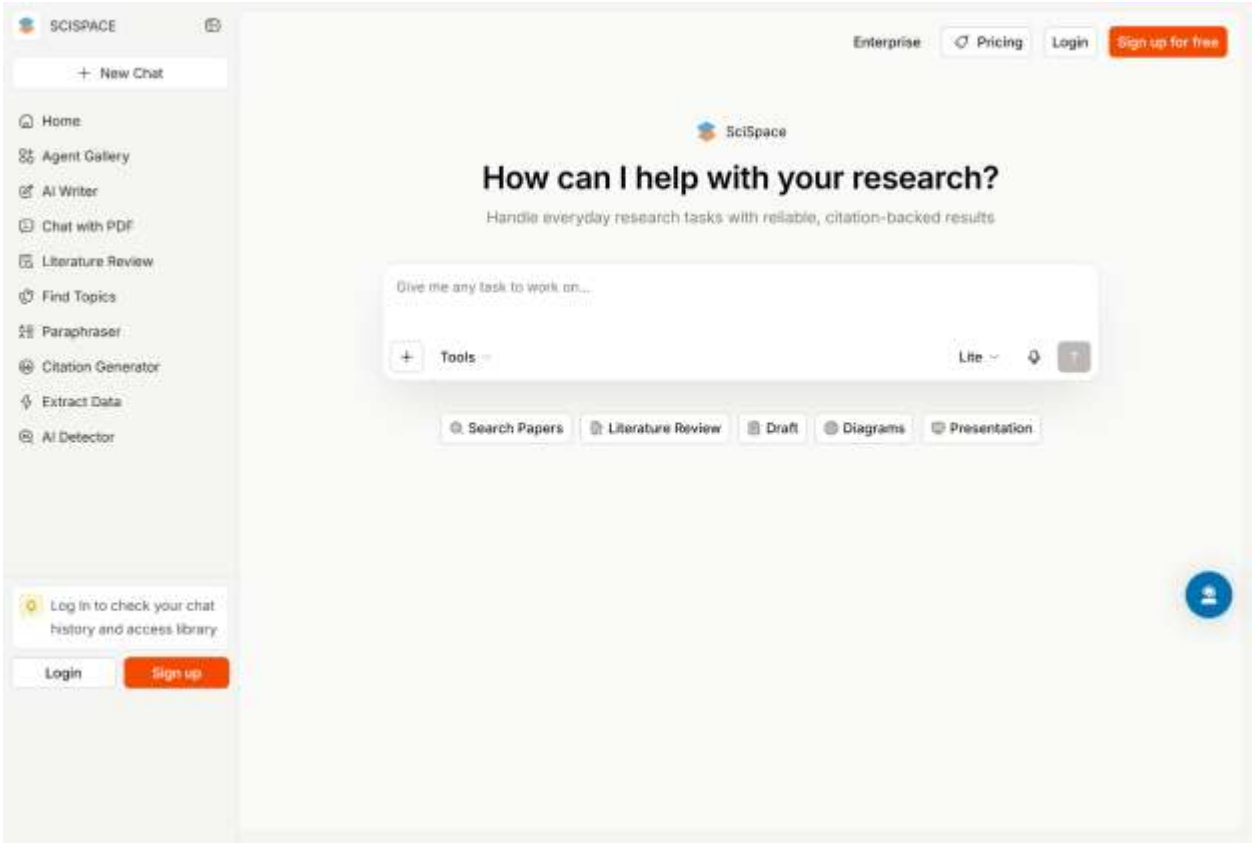


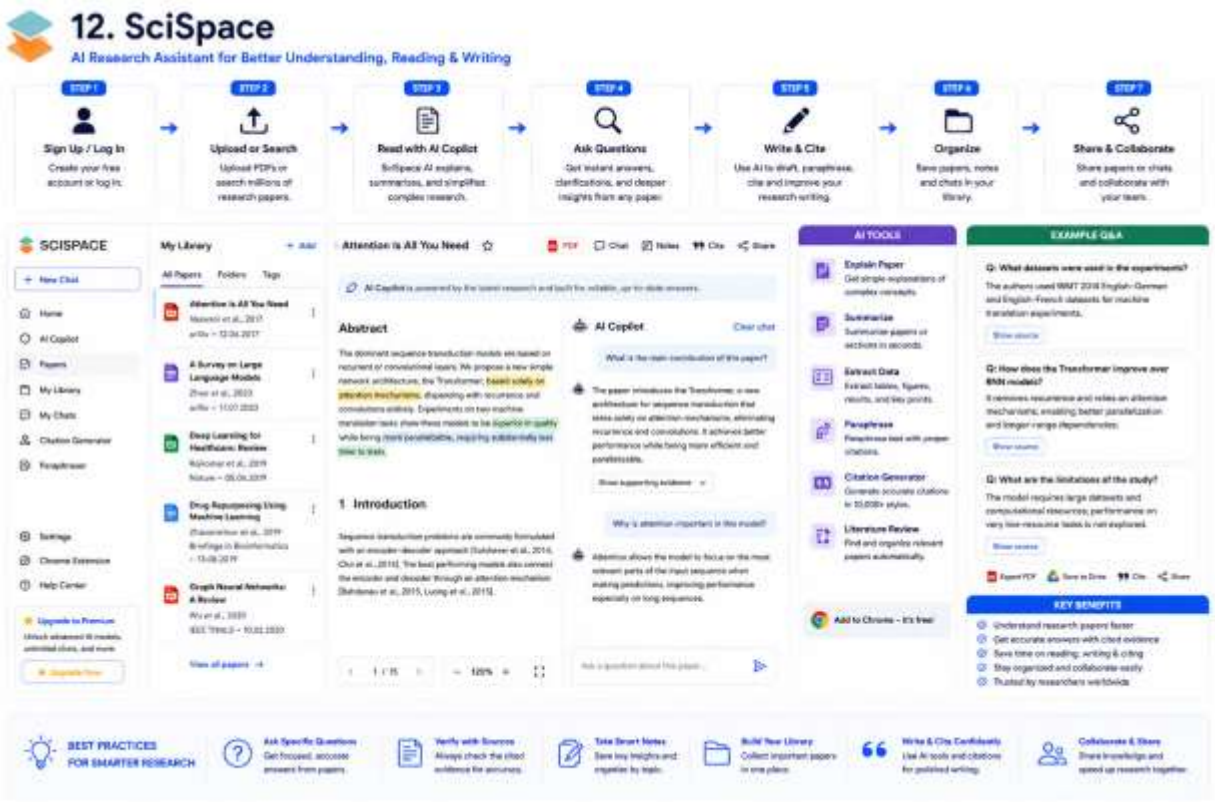


- **Key Advantages Over Competitors:**
  - Every summary sentence links directly to the exact passage in your source.
  - Never invents facts — answers are strictly drawn from uploaded files.
  - Handles PDF, Google Docs, and copied text seamlessly.
  - Ideal for turning a stack of articles into a seminar outline.
  - Far fewer hallucinations than general-purpose chatbots.
- **Pricing:** Free

12. SciSpace

- **Website:** https://scispace.com
- **Primary Purpose:**
  - Navigate and interrogate scientific PDFs through a conversational interface.
  - Auto-extract methods, findings, and limitations from research papers.
  - Decode dense academic jargon into plain-language explanations.
- **Quick Start Steps:**
  - Visit https://scispace.com and log in.
  - Upload a PDF or search for a paper by title/DOI.
  - Use the **"Chat with PDF"** panel on the right to ask questions (e.g., "What is the main hypothesis?").
  - Click on any extracted data point to see the source sentence highlighted.
  - Use the "Literature Review" tool to compare findings across multiple papers.
- **Screenshot Walkthrough:** Display the PDF viewer with the chat panel open. Show a question being typed and the AI answer appearing with a clickable reference that highlights the relevant paragraph in the PDF. Show the multi-paper comparison table.



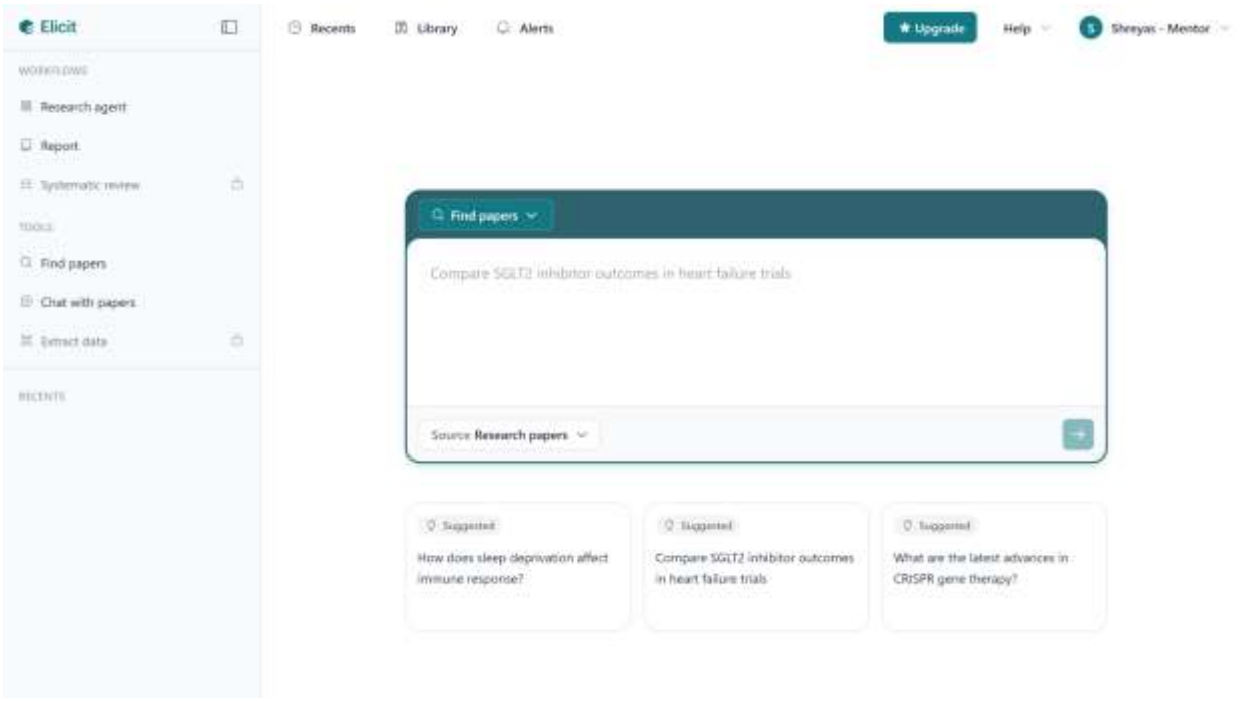


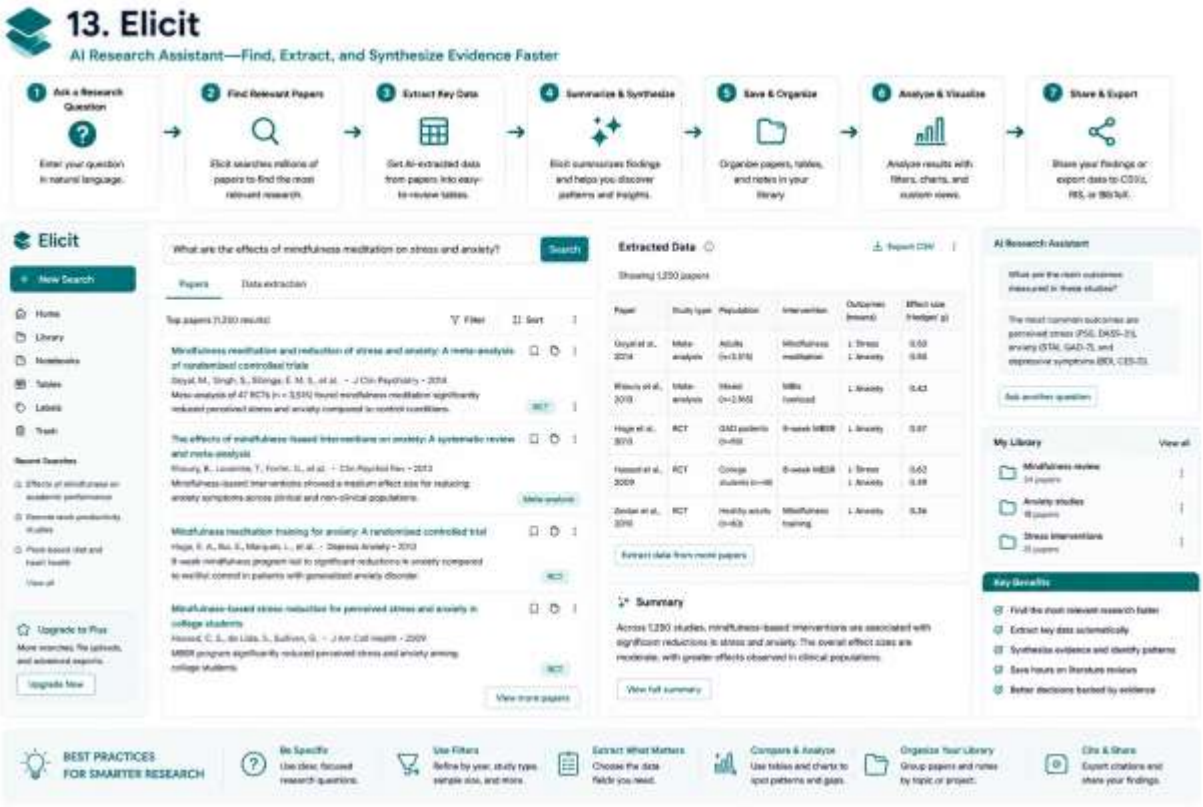
- **Key Advantages Over Competitors:**
  - Chat directly with a PDF — ask, “What was the sample size?” and get the answer.
  - Auto-extracts key findings, methods, and limitations across dozens of papers.

    - Built exclusively for academic research, not general internet chat.
    - Decodes jargon-heavy paragraphs into plain-language explanations.
    - Citations are always linked to the original paper's DOI.
- **Pricing:** Freemium

13. Elicit

- **Website:** https://elicit.com
- **Primary Purpose:**
    - Automate systematic literature reviews and evidence extraction.
    - Pull outcomes, interventions, and population data from studies into tables.
    - Rapidly discover relevant papers beyond simple keyword searches.
- **Quick Start Steps:**
    - Go to https://elicit.com and start a new search (free tier available).
    - Enter a research question (e.g., "Does mindfulness reduce test anxiety in college students?").
    - Elicit returns a table of papers with columns for intervention, sample size, outcome, etc.
    - Use filters to narrow by study design, year, or citation count.
    - Click any paper to see detailed extracted data and export the table to CSV.
- **Screenshot Walkthrough:** Show the search bar with a question, then the results table with auto-populated columns. Highlight the filter pane and an expanded paper view with extracted data. Show the export button.

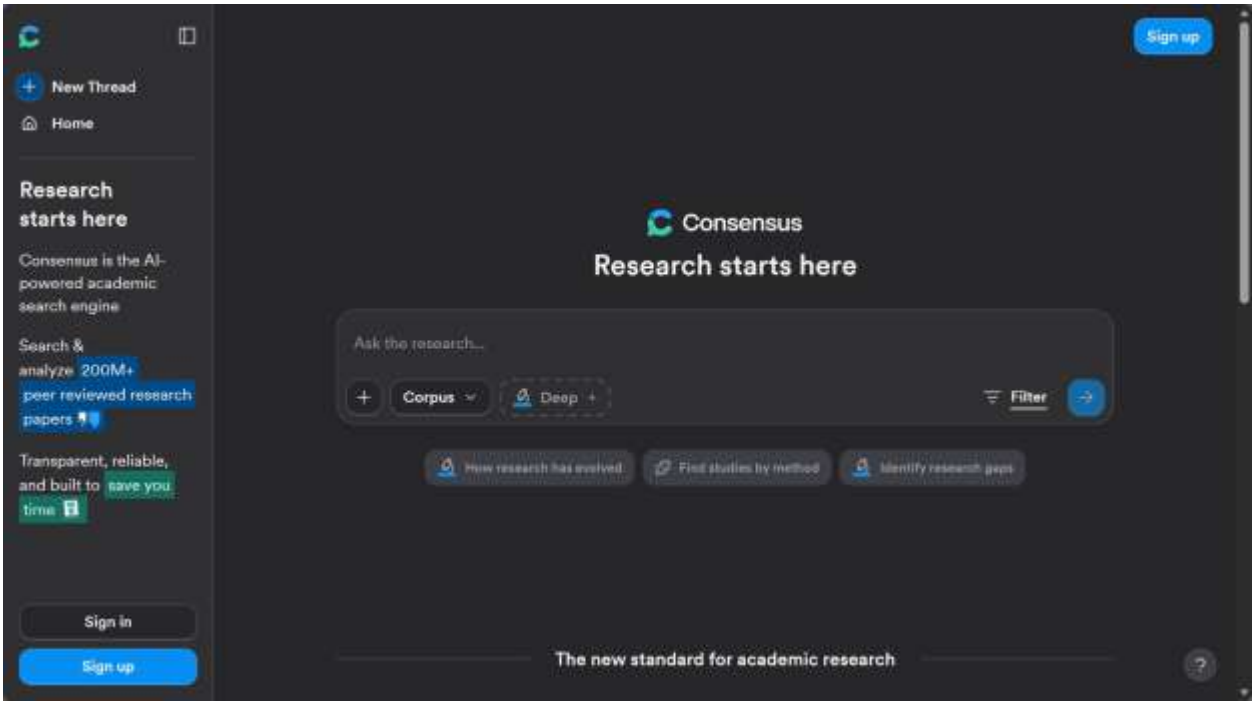


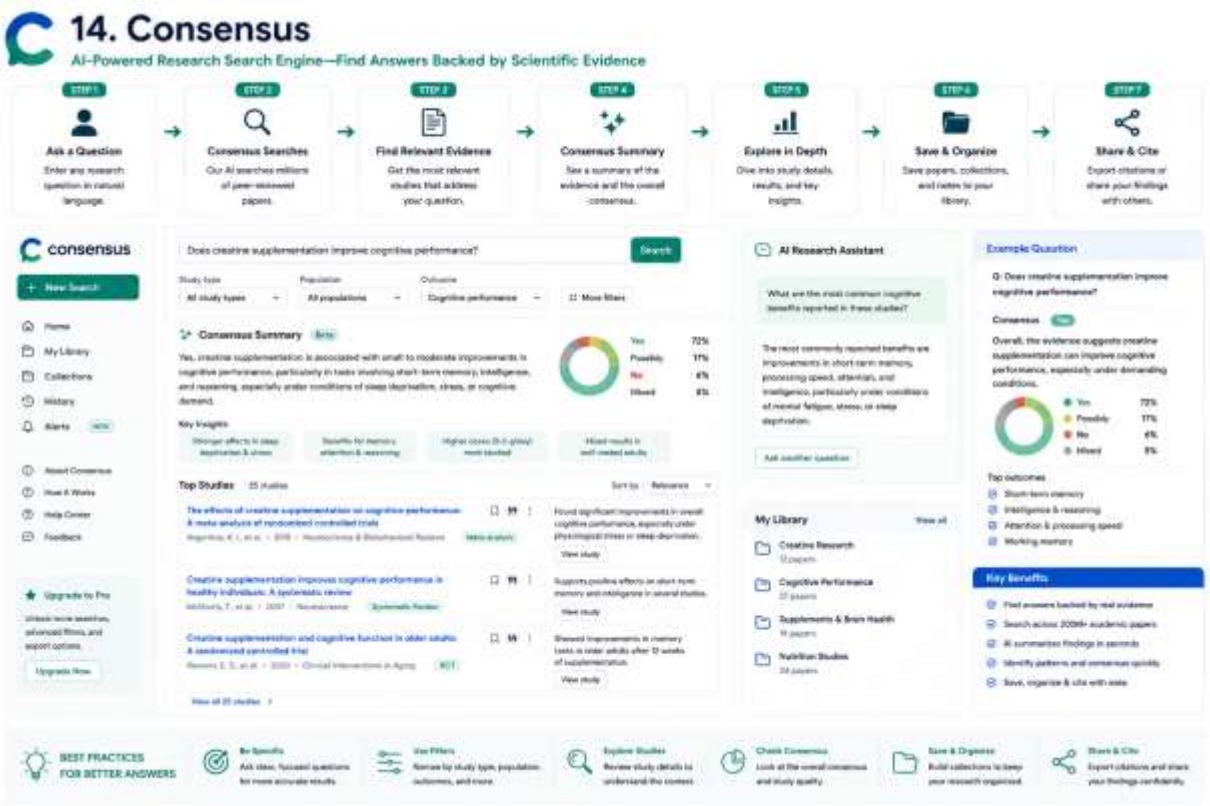


- **Key Advantages Over Competitors:**
  - Automatically pulls outcomes, interventions, and population sizes from studies.
  - Finds papers you might miss with a keyword search alone.
  - Designed for the PRISMA-style systematic review workflow.
  - Extracts data into a structured table that can be exported to Excel.
  - Cuts weeks of manual screening down to a few focused sessions.
- **Pricing:** Free + Paid

14. Consensus

- **Website:** https://consensus.app
- **Primary Purpose:**
  - Answer focused research questions using only peer-reviewed literature.
  - Gauge scientific consensus on a topic with a visual “consensus meter”.
  - Quickly fact-check claims before including them in lectures or manuscripts.
- **Quick Start Steps:**
  - Visit https://consensus.app (free to use).
  - Type a yes/no or comparative question (e.g., “Does zinc shorten cold duration?”).
  - View the **“Consensus Meter”** showing the proportion of studies supporting each side.
  - Scroll through the list of papers with key findings extracted.
  - Click a paper to open its abstract or full text on the publisher’s site.
- **Screenshot Walkthrough:** Capture the consensus meter at the top of the results page, then the list of papers with one-line summaries. Show a clicked paper with the AI-extracted “Key Finding” callout.





- **Key Advantages Over Competitors:**
    - Answers yes/no questions with a “consensus meter” from published research.
    - Shows you whether the scientific community leans for or against a claim.
    - Excellent for fact-checking a controversial topic before including it in a lecture.
    - Only surfaces peer-reviewed papers, no blog posts or opinion pieces.
    - Translates meta-analysis findings into a one-paragraph digest.
- **Pricing:** Free + Paid

15. Research Rabbit

- **Website:** https://researchrabbit.ai
- **Primary Purpose:**
    - Discover and map literature through visual citation networks.
    - Start from one seed paper and uncover interconnected authors and works.
    - Track new publications in your area of interest with automated alerts.
- **Quick Start Steps:**
    - Go to https://researchrabbit.ai and sign up (free).
    - Start a new collection and add a seed paper by DOI, title, or PMID.
    - Click **"Explore Network"** to see a graph of related papers.
    - Click any node to add papers to your collection or view later.
    - Enable email alerts to get notified when new papers appear in the network.
- **Screenshot Walkthrough:** Show the visual graph with nodes and connecting lines, the side panel listing paper details, and the "Add to Collection" button. Highlight the alert settings.

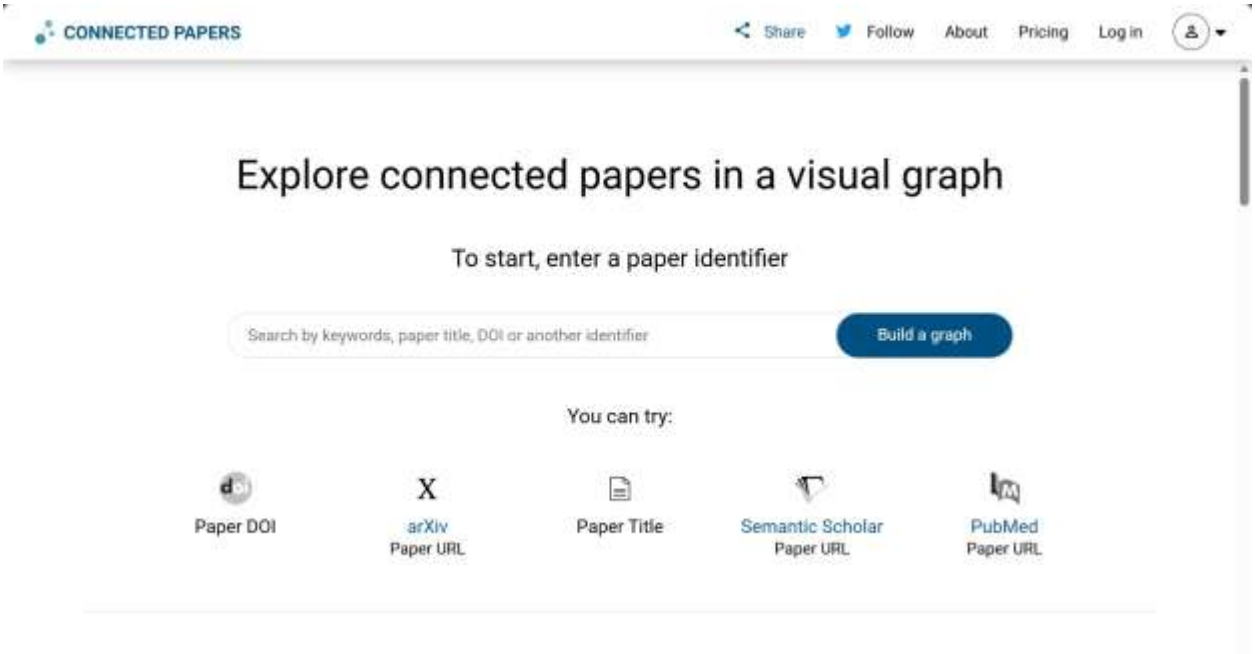


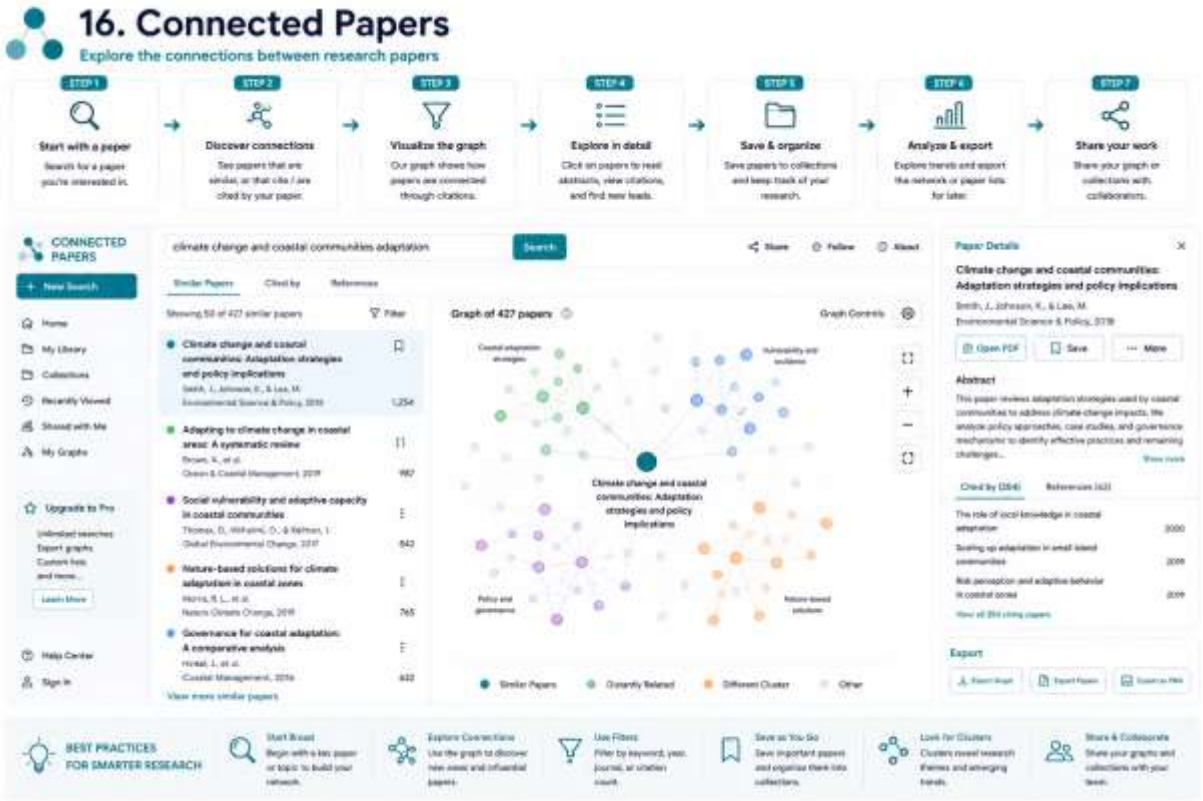


- **Key Advantages Over Competitors:**
  - Builds an interactive visual network of related papers and authors.
  - Start with one seed paper and instantly see a web of citations.
  - Uncovers interdisciplinary connections a keyword search would miss.
  - Sends alerts when new papers appear in your curated collections.
  - Completely free for academics — no “premium” paywall for core features.
- **Pricing:** Free

16. Connected Papers

- **Website:** https://connectedpapers.com
- **Primary Purpose:**
  - Visualize the relationship landscape of academic papers as topological graphs.
  - Identify foundational works and trace influence across publication timelines.
  - Build a comprehensive “related work” section through semantic co-citation links.
- **Quick Start Steps:**
  - Visit https://connectedpapers.com (no sign-up for basic use).
  - Enter a paper title, DOI, or arXiv ID in the search bar.
  - Click **“Build a graph”** – a network of related papers appears.
  - Hover over nodes to see titles; click a node to open the paper details.
  - Use the “Prior Works” and “Derivative Works” tabs to see foundational vs. newer papers.
- **Screenshot Walkthrough:** Display the graph with the origin paper highlighted, the “Prior Works” panel, and a pop-up with paper abstract. Show the timeline view if available.

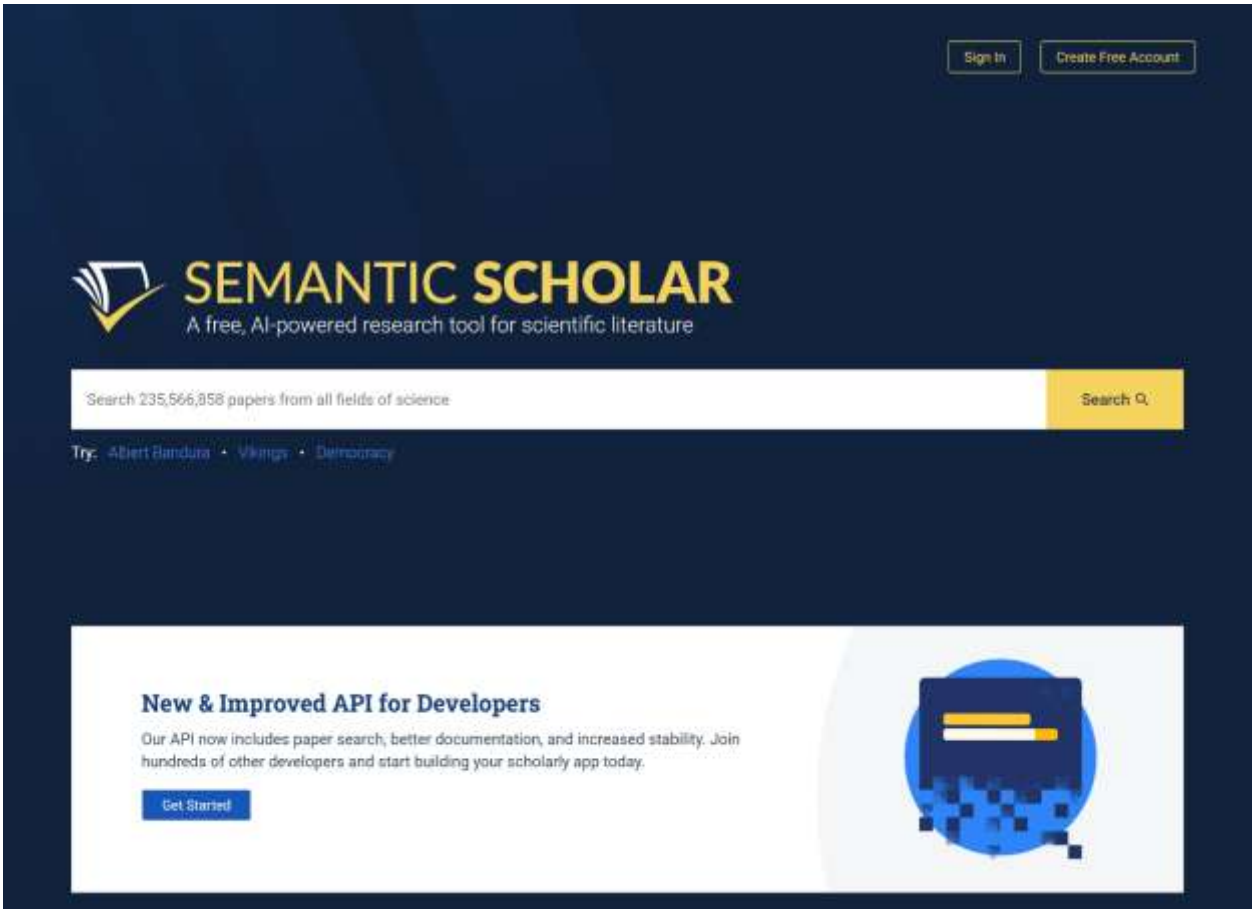


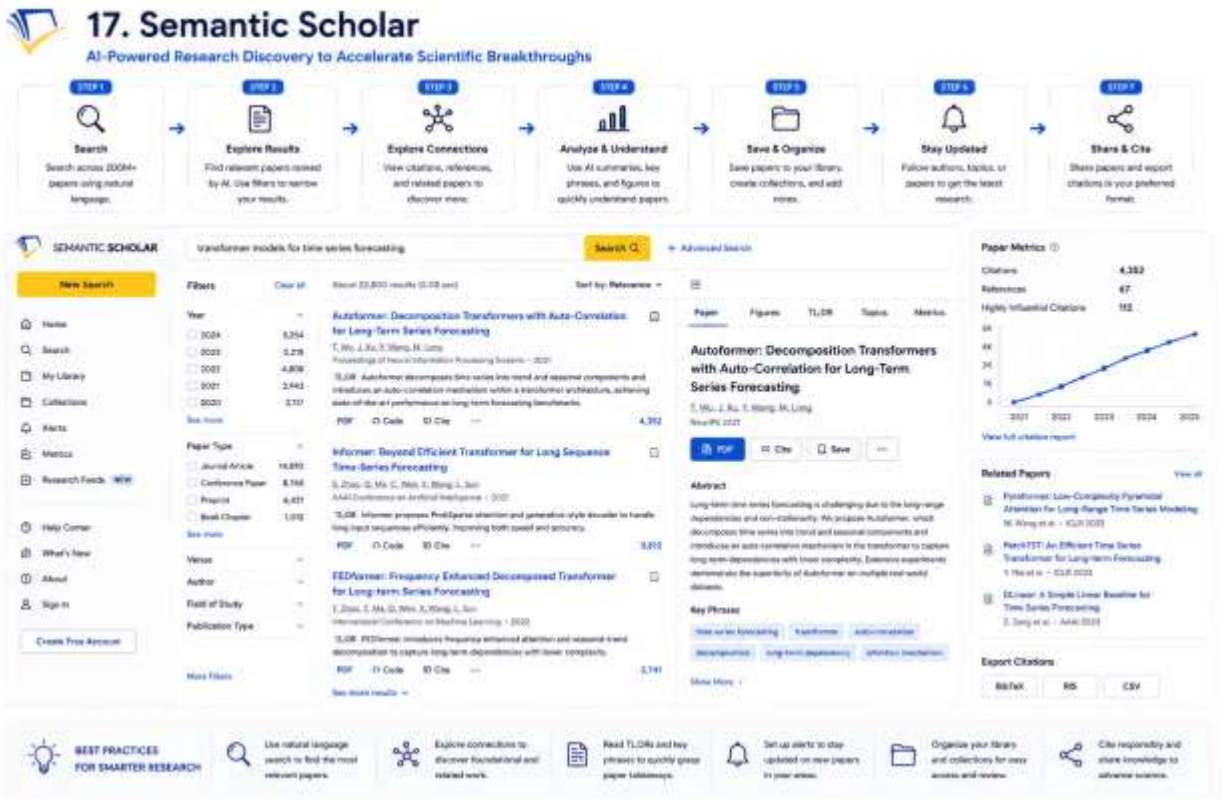


- **Key Advantages Over Competitors:**
  - Clean, topological graph shows how papers cite and relate to each other.
  - Highlights works that share strong semantic links, not just citation matches.
  - Perfect for writing the “related work” section of a manuscript.
  - Reveals which papers are foundational vs. derivative in a field.
  - Simple, uncluttered interface — no account needed for basic use.
- **Pricing:** Freemium

17. Semantic Scholar

- **Website:** https://semanticscholar.org
- **Primary Purpose:**
    - Provide AI-enhanced academic paper search across over 200 million publications.
    - Offer citation velocity and influence metrics to filter impactful research.
    - Surface personalised, context-aware recommendations beyond keyword matches.
- **Quick Start Steps:**
    - Go to https://semanticscholar.org.
    - Type your search terms in the main search bar.
    - Use filters on the left (year, field of study, author, venue).
    - Click a paper to see its abstract, citation graph, and “Highly Influential Citations” badge.
    - Install the browser extension for one-click access to PDFs and recommendation feeds.
- **Screenshot Walkthrough:** Show a search results page with the “TL;DR” auto-generated summary and the citation velocity graph. Highlight the “Highly Influential Citations” flag on a paper. Show the personalized “Research Feed” after sign-in.



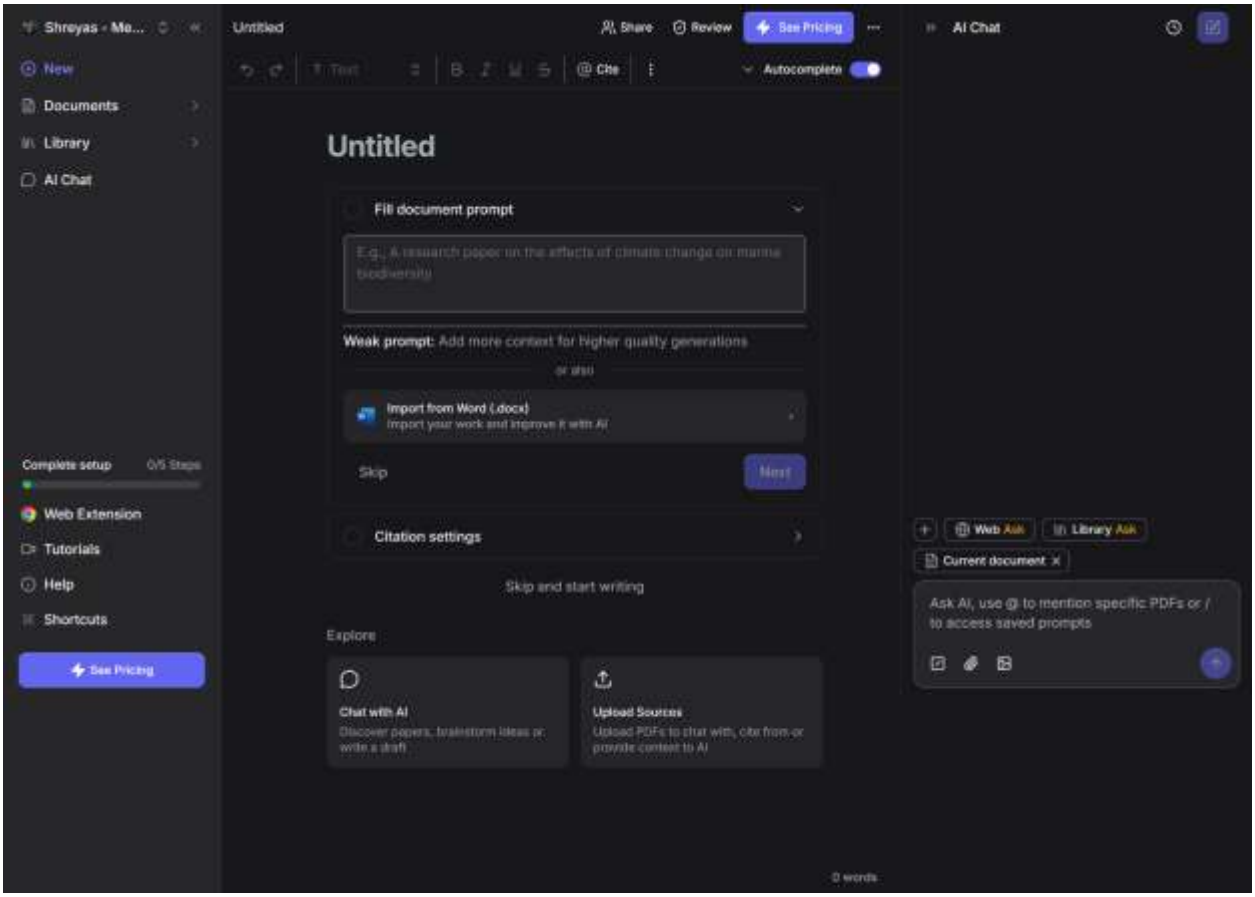


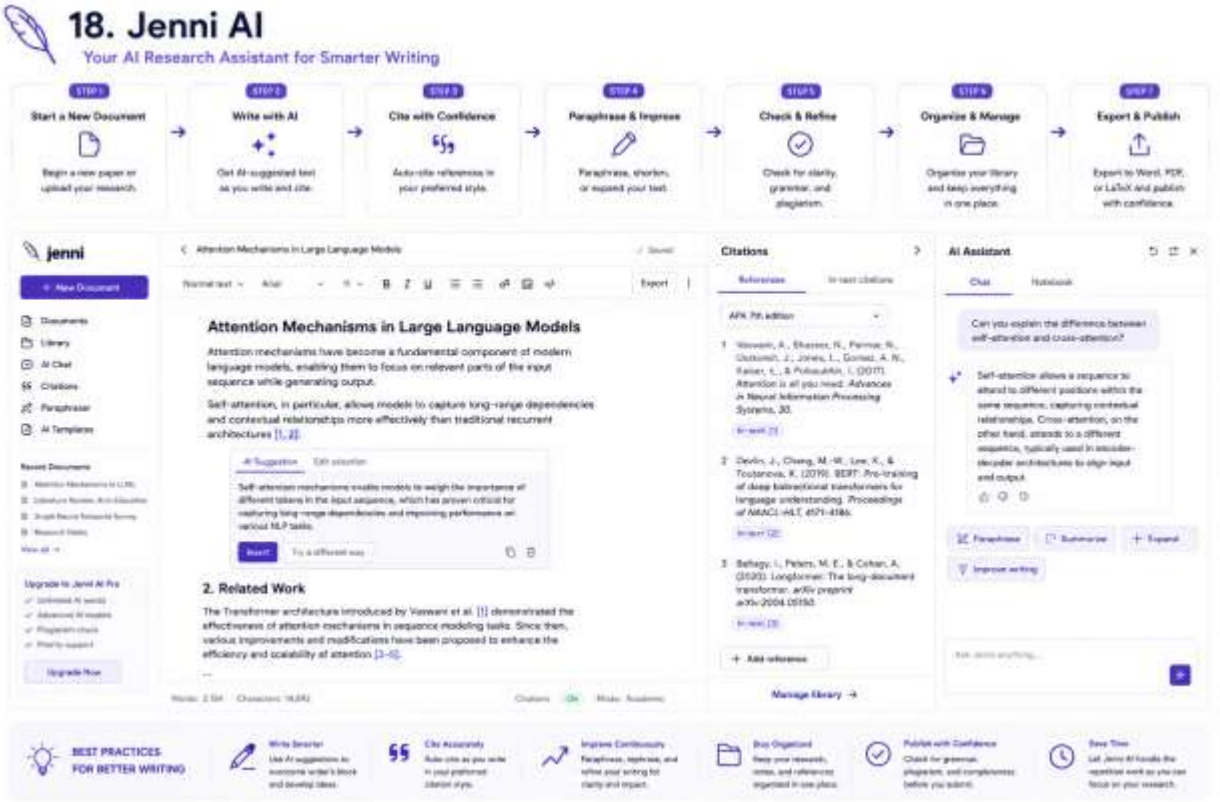
- **Key Advantages Over Competitors:**
  - AI-driven recommendations surface papers you'd otherwise overlook.
  - Database covers over 200 million academic publications.
  - Citation velocity and influence metrics help separate signal from noise.
  - Free and open-access, with no institutional subscription barrier.
  - Browser extension adds one-click access to full-text PDFs.
- **Pricing:** Free

SECTION 4: MANUSCRIPT WRITING & GRAMMAR POLISHING

18. Jenni AI

- **Website:** https://jenni.ai
- **Primary Purpose:**
  - Accelerate academic manuscript writing with an AI tuned for research.
  - Offer context-aware paragraph autocomplete and inline citation matching.
  - Help non-native English speakers produce publication-ready first drafts.
- **Quick Start Steps:**
  - Go to https://jenni.ai and create an account (paid, with free trial).
  - Start a new document and type a title or first sentence.
  - Press **Tab** or **Ctrl+J** to accept the AI's paragraph autocomplete suggestions.
  - Highlight a reference placeholder and search your citation library to insert.
  - Use the "Ask Jenni" sidebar to rephrase or expand selected text.
- **Screenshot Walkthrough:** Show the writing editor with a grey suggestion text appearing as you type. Highlight the citation insertion pop-up. Show the sidebar with "Rephrase" results. Emphasize the clean, minimal interface.

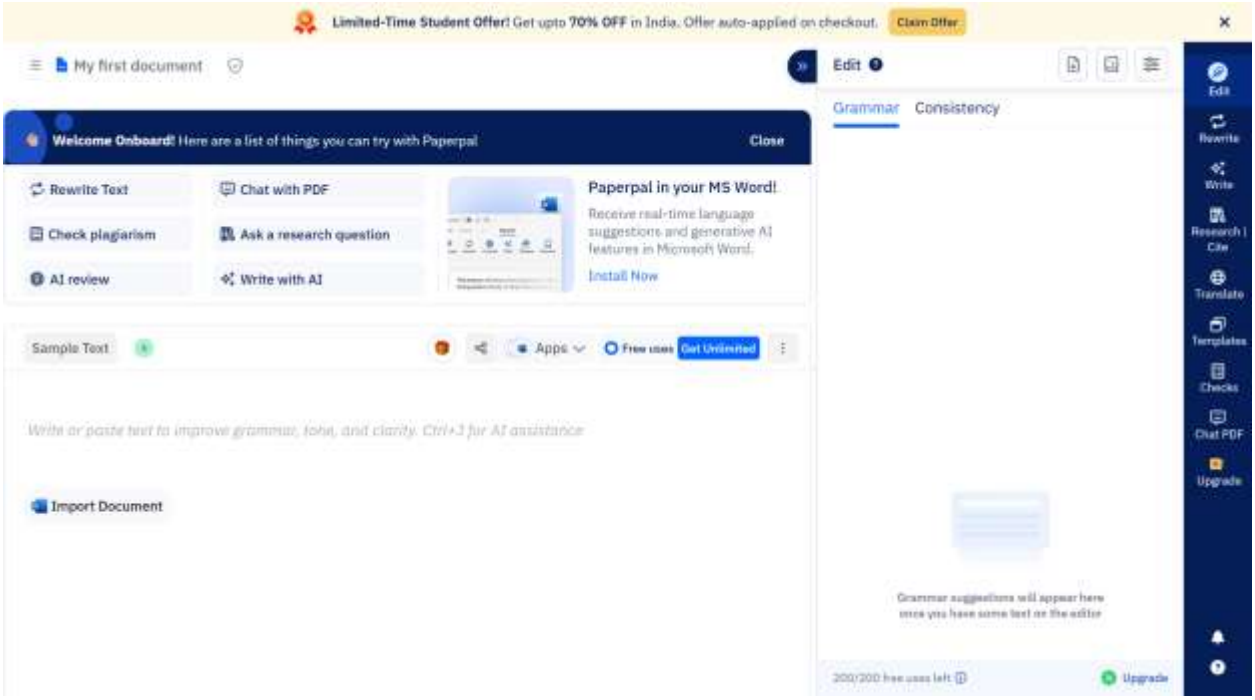


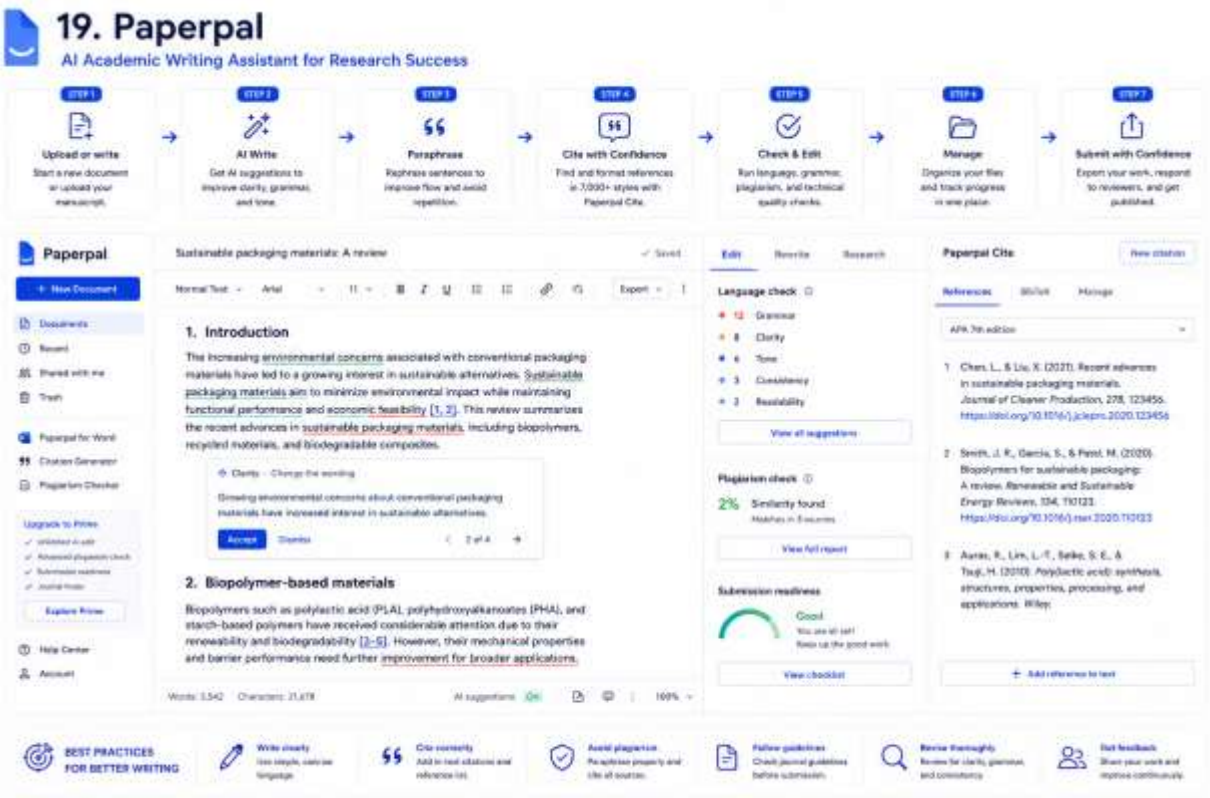


- **Key Advantages Over Competitors:**
  - Designed specifically for research writing, not blog posts or marketing copy.
  - Context-aware autocomplete suggests the next paragraph as you type.
  - Inline citation suggestions matched to your bibliography in real time.
  - Speeds up the first-draft phase of a journal article considerably.
  - Helps non-native English speakers achieve a publication-ready style.
- **Pricing:** Paid

19. Paperpal

- **Website:** https://paperpal.com
- **Primary Purpose:**
  - Edit scholarly manuscripts to meet the standards of high-impact journals.
  - Provide language polishing and a pre-submission checklist for review readiness.
  - Enforce formal academic style conventions consistently across a document.
- **Quick Start Steps:**
  - Install Paperpal for Word or use the online editor at https://paperpal.com.
  - Upload or paste your manuscript text.
  - Run **"Language Check"** for grammar, clarity, and academic tone.
  - Use **"Pre-submission Check"** to identify missing sections, word count limits, etc.
  - Accept or reject suggestions one by one or in bulk.
- **Screenshot Walkthrough:** Show the Word add-in pane with flagged sentences and suggested corrections. Highlight the pre-submission report with a checklist of journal requirements. Show a before-and-after sentence improvement.

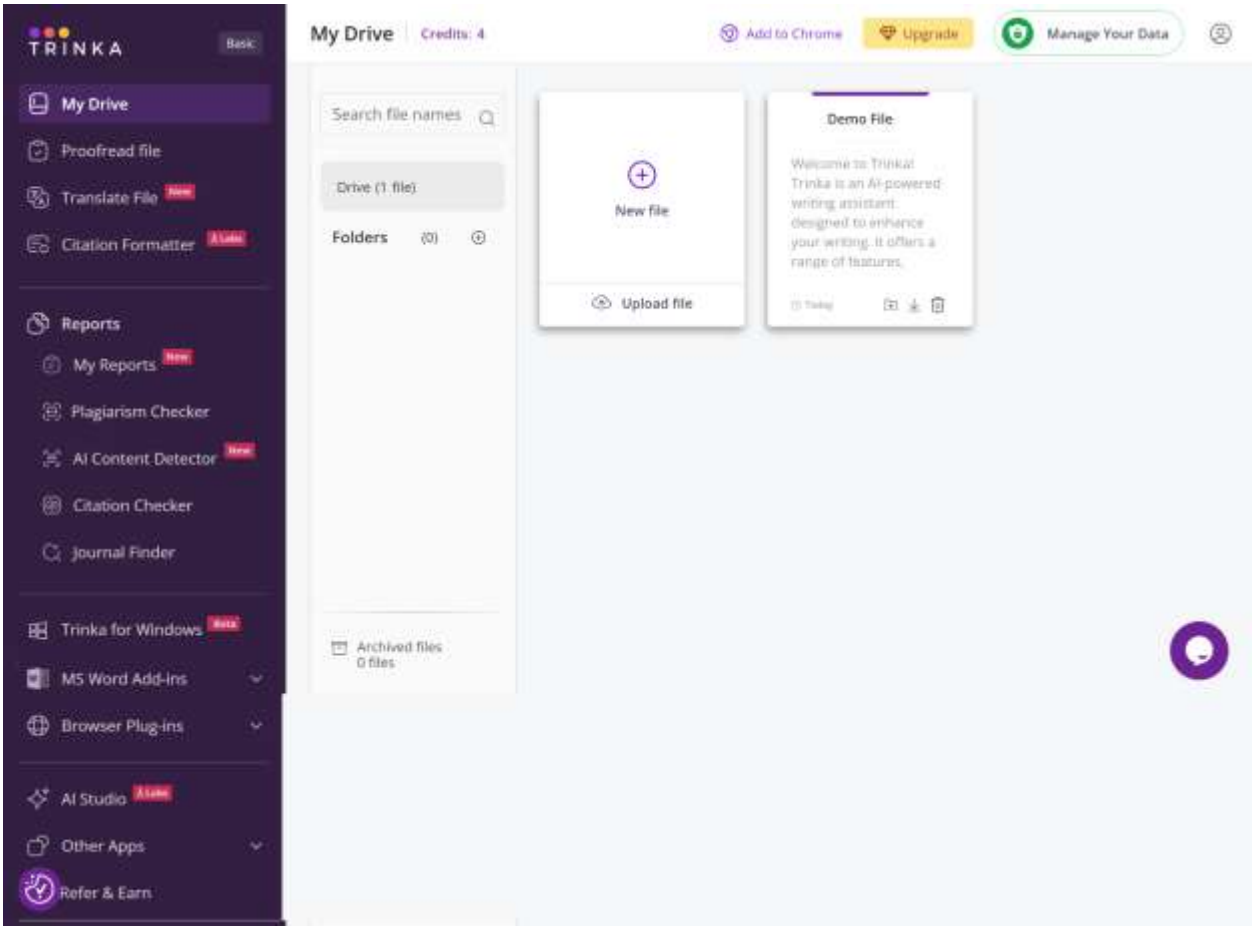


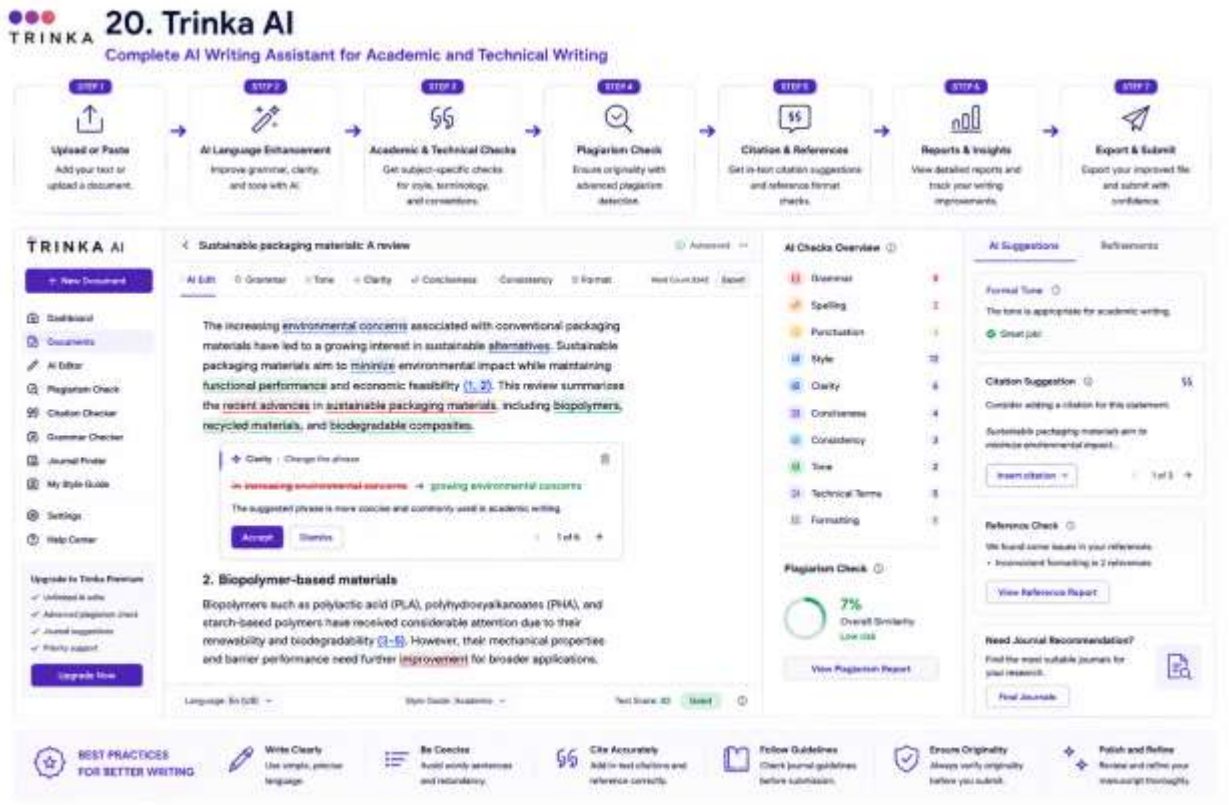


- **Key Advantages Over Competitors:**
  - Trained on accepted journal articles, so it mirrors reviewer expectations.
  - Polishes language to a native-level academic standard.
  - Runs a pre-submission check that flags issues editors commonly reject.
  - Enforces consistent academic style (e.g., active voice, formal tone).
  - Especially valuable for faculty whose first language is not English.
- **Pricing:** Freemium

20. Trinka AI

- **Website:** https://trinka.ai
- **Primary Purpose:**
  - Correct grammar with an engine that understands scientific terminology.
  - Adjust writing for an authoritative, formal academic register.
  - Provide specialized technical writing support for medicine, engineering, and STEM.
- **Quick Start Steps:**
  - Go to https://trinka.ai and sign up (free plan available).
  - Paste your text into the editor or upload a document.
  - Click **"Check Grammar"** – errors are underlined with suggestions.
  - Select a subject area (e.g., "Medical," "Engineering") for vocabulary-aware corrections.
  - Download the corrected document or copy the clean text.
- **Screenshot Walkthrough:** Show the editor with a scientific term correctly left unchanged (e.g., "in vitro") while a grammar error is flagged. Highlight the subject-area selector and the "Publication Readiness" score.

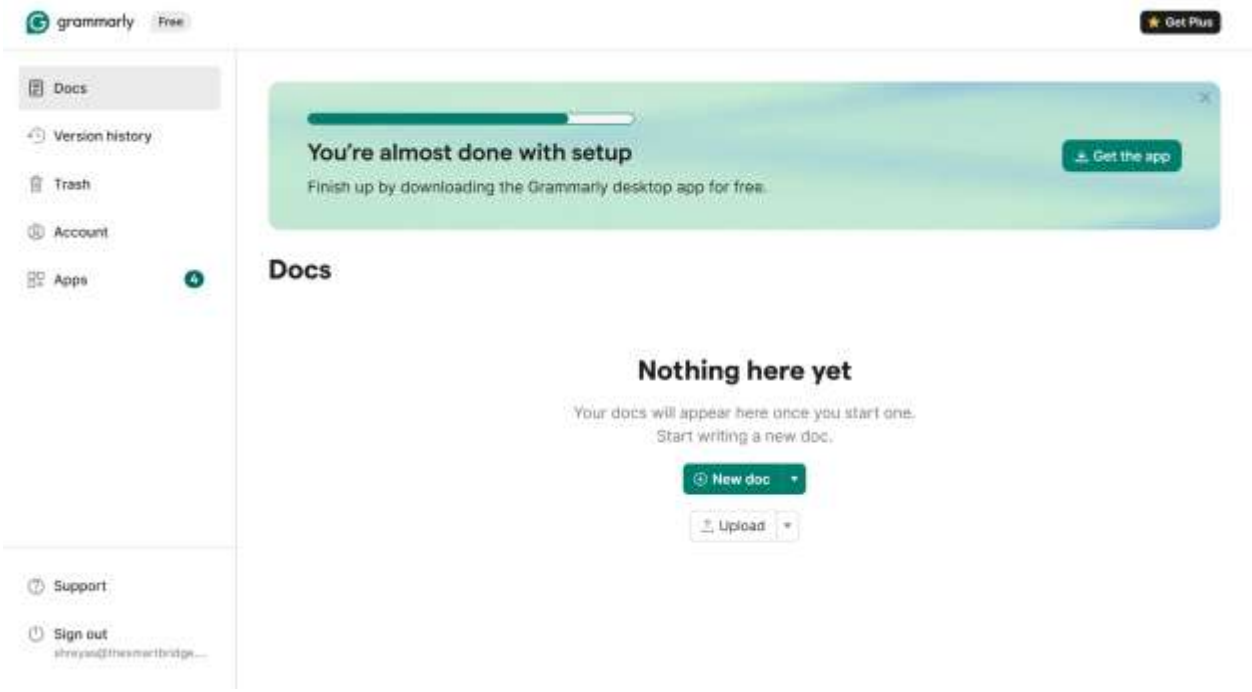


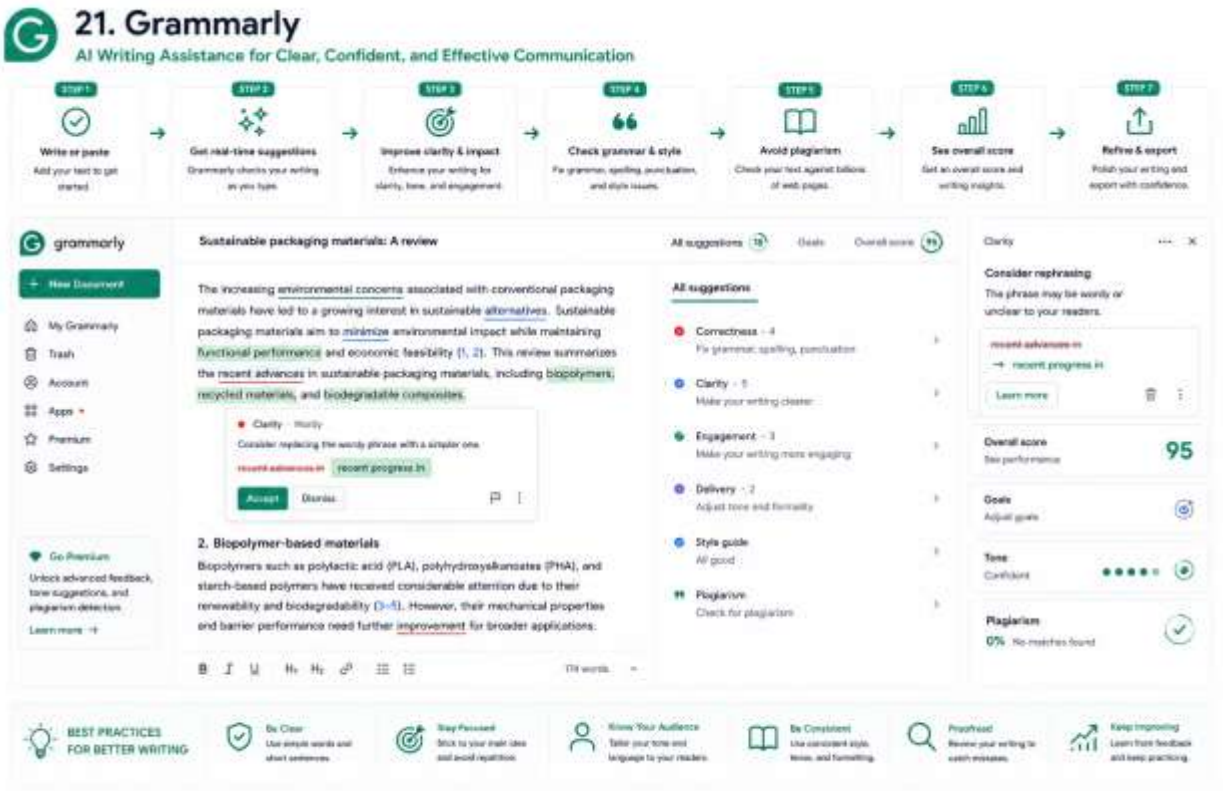


- **Key Advantages Over Competitors:**
  - Understands scientific terminology — doesn't flag "et al." or "in vitro" as errors.
  - Adjusts language for a formal, authoritative academic register.
  - Provides specialized support for technical vocabulary in medicine, engineering, etc.
  - Suggestions are geared toward publishing, not just casual correctness.
  - Far more thorough than a standard spellchecker for research writing.
- **Pricing:** Freemium

21. Grammarly

- **Website:** https://grammarly.com
- **Primary Purpose:**
  - Serve as an all-purpose writing assistant for emails, LMS posts, and grants.
  - Deliver real-time grammar, clarity, and tone corrections everywhere you type.
  - Ensure consistent, professional communication across all faculty interactions.
- **Quick Start Steps:**
  - Install the Grammarly browser extension or desktop app.
  - The Grammarly icon appears in text fields across the web (email, Canvas, etc.).
  - Start typing — underlines appear for errors; click to see suggestions.
  - Set your goals (audience, formality, domain) for tailored advice.
  - Use the Grammarly Editor for long-form documents and plagiarism checking (Premium).
- **Screenshot Walkthrough:** Show the Grammarly widget in a Gmail compose window with a tone indicator smiley face. Then show the full editor with a clarity rewrite suggestion. Highlight the goal-setting panel.



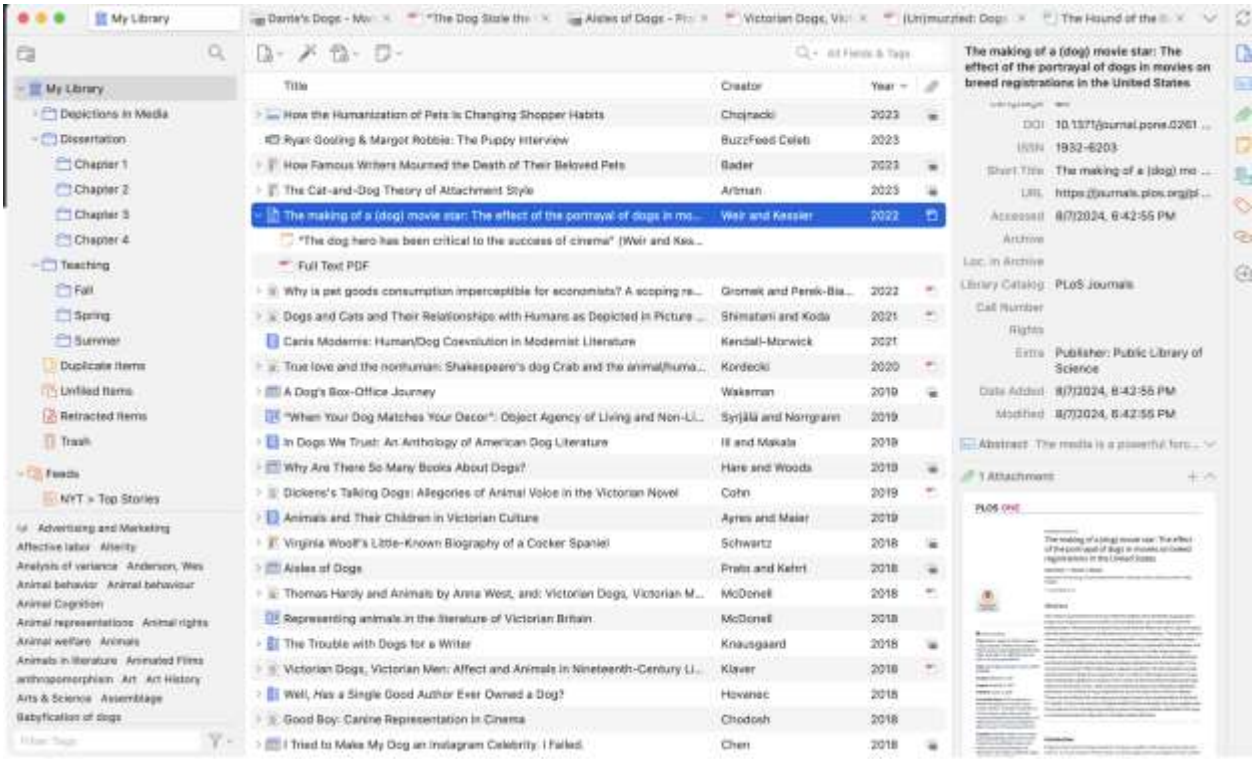


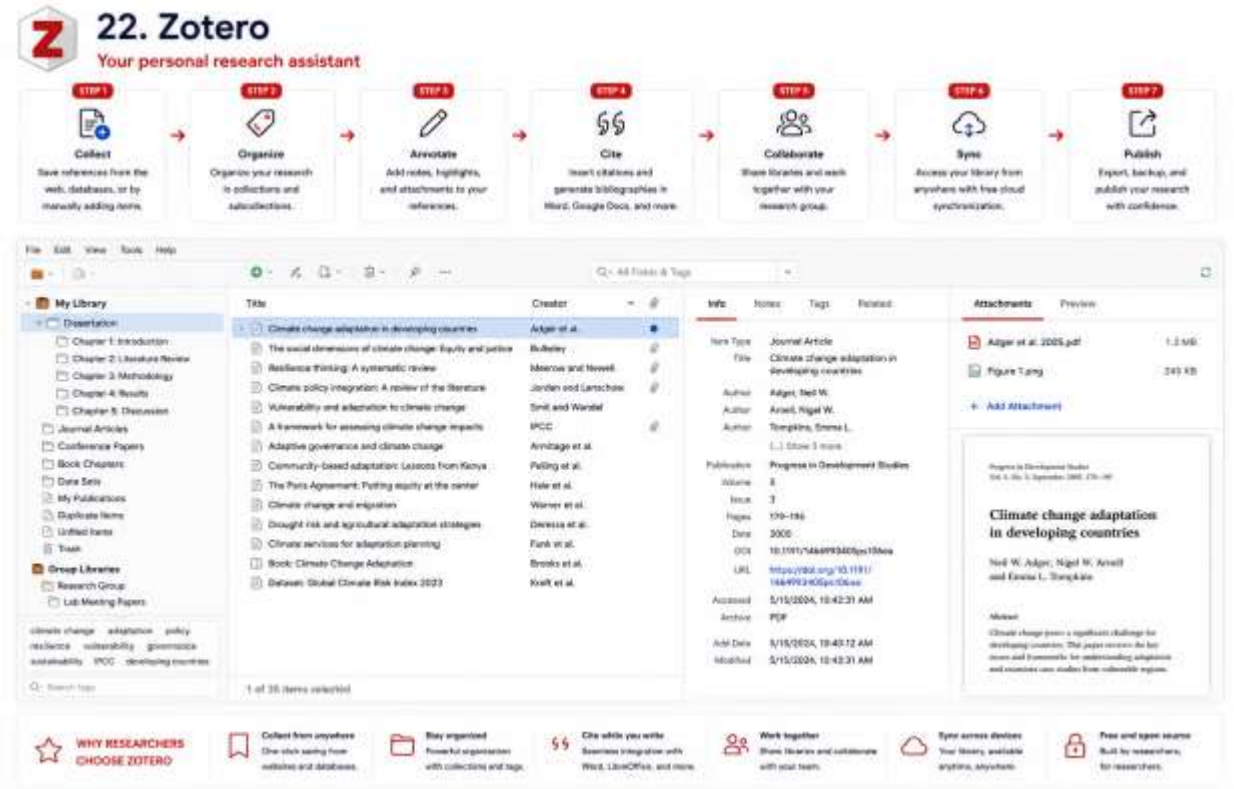
- **Key Advantages Over Competitors:**
    - Works everywhere: email, LMS announcements, grant applications.
    - Real-time grammar and clarity suggestions that require zero setup.
    - Tone detector helps you sound approachable yet professional.
    - Institutional plan allows consistent style across a department.
    - Browser extension, desktop app, and mobile keyboard keep you covered.
- **Pricing:** Free + Paid

SECTION 5: REFERENCE & CITATION MANAGEMENT

22. Zotero

- **Website:** https://zotero.org
- **Primary Purpose:**
    - Manage academic references with a free, open-source tool.
    - Capture citation metadata in one click and auto-generate bibliographies.
    - Collaborate on shared group libraries for research teams and labs.
- **Quick Start Steps:**
    - Download Zotero and install the browser connector at https://zotero.org.
    - When viewing a paper online, click the **Zotero connector icon** (looks like a book/page).
    - The reference is saved to your library with full metadata and PDF if available.
    - In Word or Google Docs, use the Zotero plugin to insert citations and generate a bibliography.
    - Create shared group libraries for team projects.
- **Screenshot Walkthrough:** Show the Zotero desktop library with a list of references, the browser connector capturing a paper from PubMed, and the Word plugin inserting a citation. Highlight the group library sync icon.

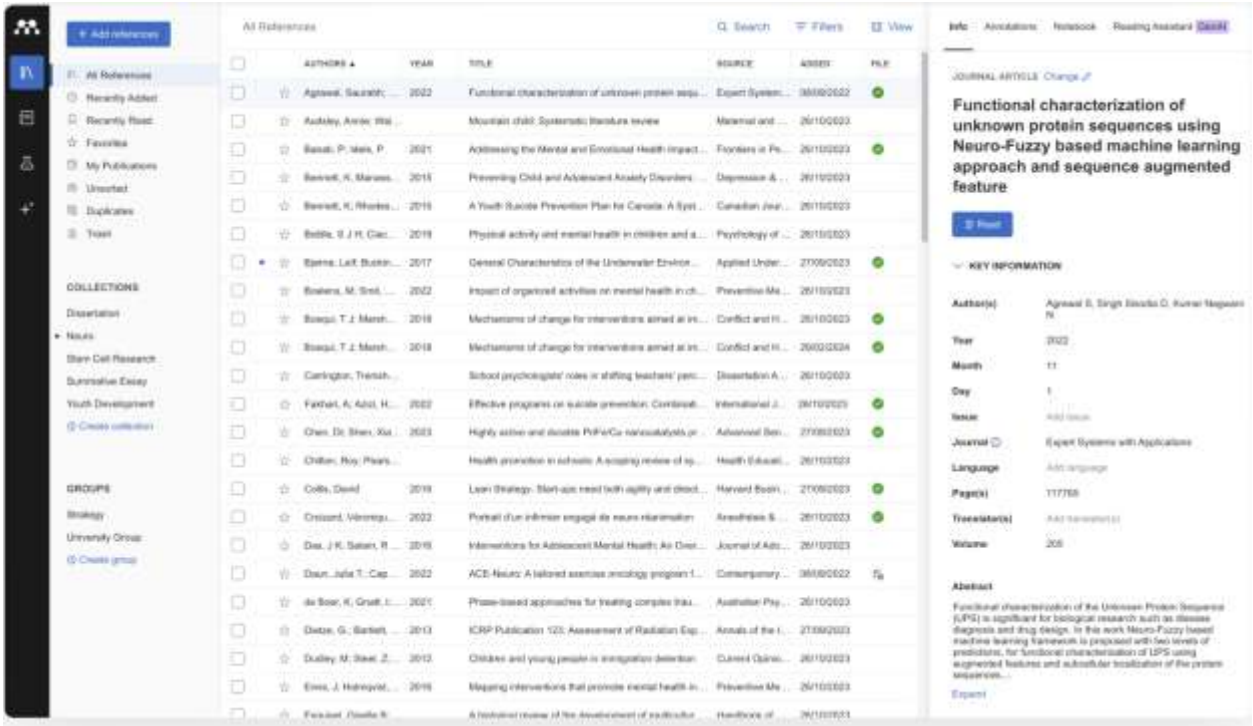


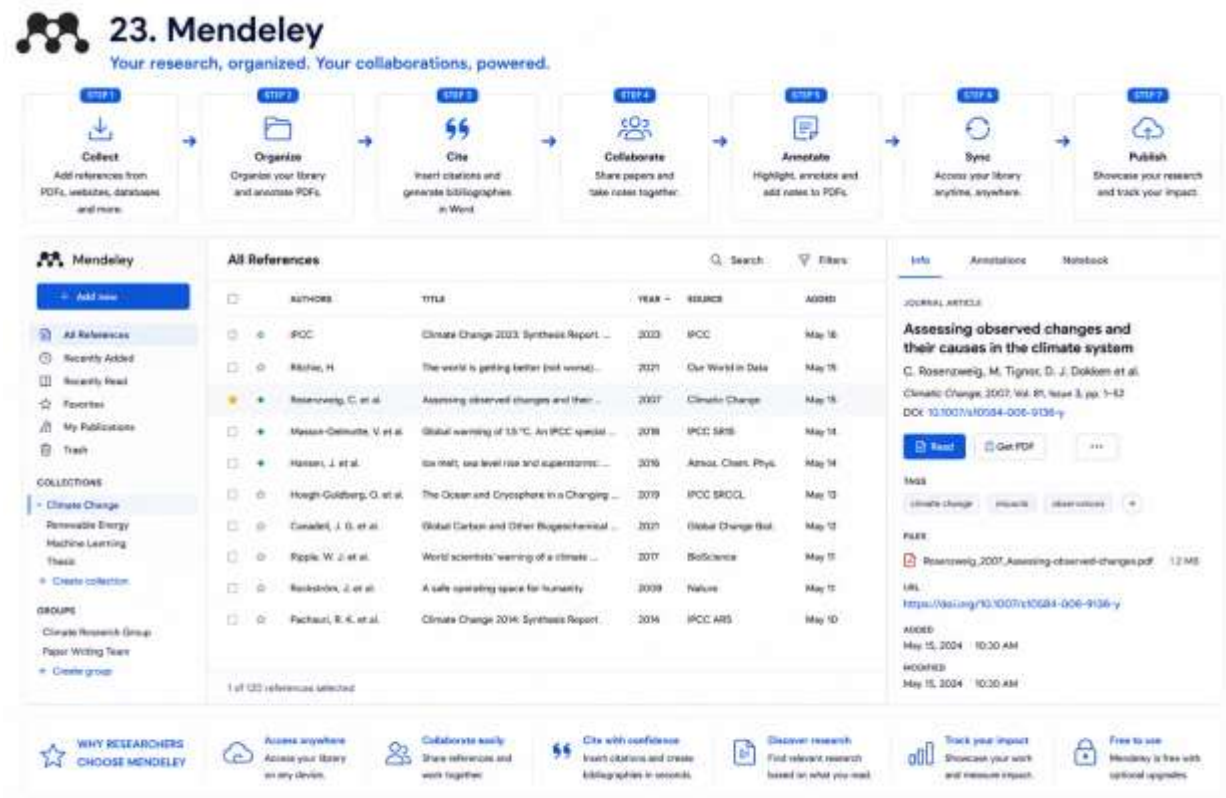


- **Key Advantages Over Competitors:**
  - Open-source — no vendor lock-in, and free forever for core features.
  - Browser connector captures citation data from any publisher page in one click.
  - Auto-generates bibliographies in thousands of journal styles.
  - Shared group libraries let a research team collaborate on a reference pool.
  - Plugins for Word and Google Docs insert citations as you write.
- **Pricing:** Free

23. Mendeley

- **Website:** https://mendeley.com
- **Primary Purpose:**
  - Provide a structured research library with PDF storage and annotation.
  - Seamlessly integrate with Elsevier journals and the broader academic ecosystem.
  - Facilitate collaboration and discovery through researcher profiles.
- **Quick Start Steps:**
  - Create an account at https://mendeley.com and download Mendeley Reference Manager.
  - Drag and drop PDFs into your library; metadata is auto-extracted.
  - Open a PDF to highlight and add sticky notes.
  - Install the citation plugin for Word to insert references.
  - Use the “Mendeley Suggest” feature to find related papers and potential collaborators.
- **Screenshot Walkthrough:** Show the library with PDF preview and annotations on the right. Highlight the Word citation plugin dialog. Show the “Discover” tab with recommended articles and researcher profiles.





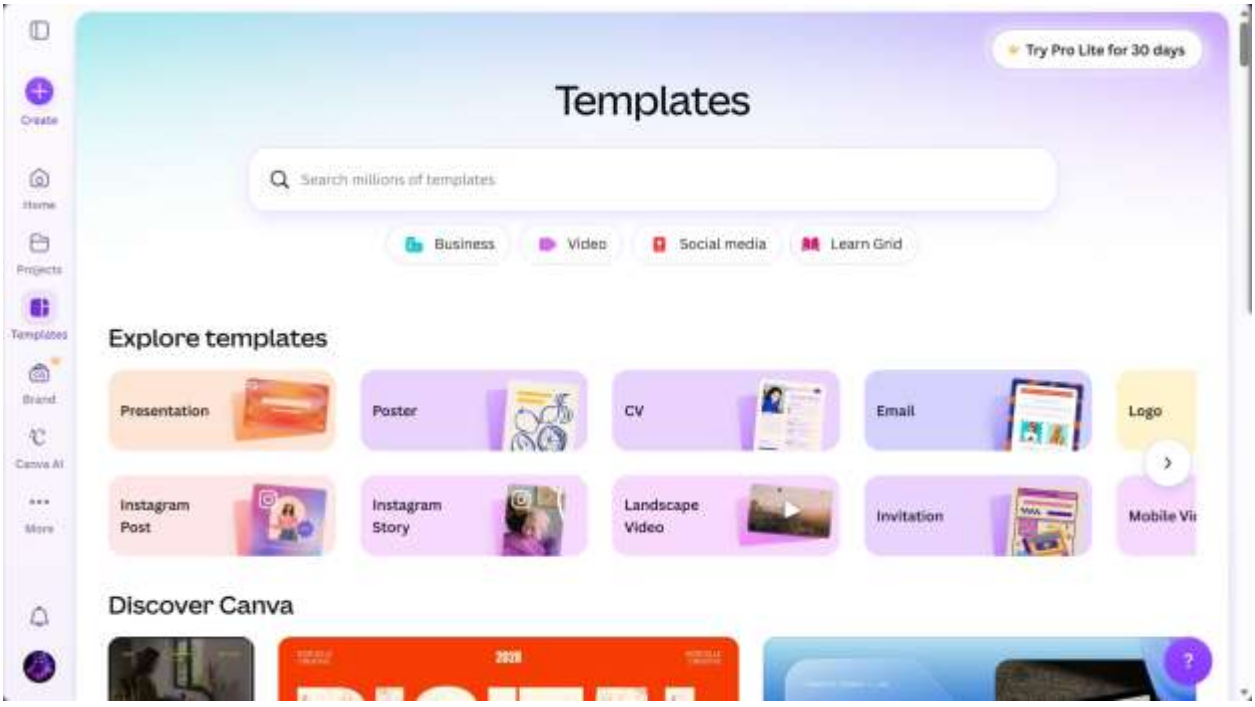
- **Key Advantages Over Competitors:**
    - Clean, searchable library with full-text PDF storage and annotation.
    - Built-in PDF reader with highlighting and sticky notes.
    - Tight integration with Elsevier journals and ScienceDirect.
    - Researcher profiles help you discover potential collaborators.
    - Citation plugin works seamlessly in Word and LibreOffice.

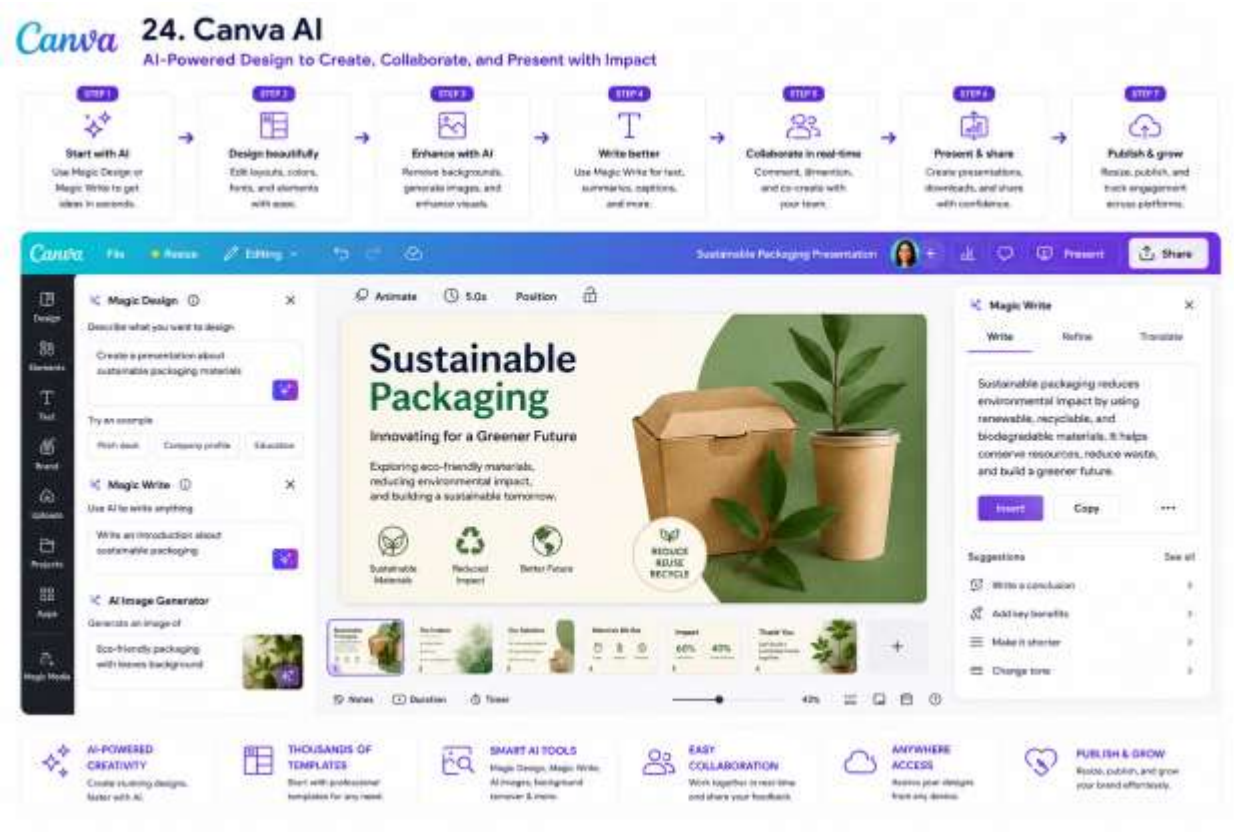
- **Pricing:** Free

SECTION 6: ADVANCED PRESENTATION & SLIDE DESIGN

24. Canva AI

- **Website:** https://canva.com
- **Primary Purpose:**
  - Design professional course presentations, posters, and handouts with ease.
  - Leverage a massive template library and AI image generation tools.
  - Maintain departmental brand consistency with kit and template features.
- **Quick Start Steps:**
  - Go to https://canva.com and sign up (free education accounts available).
  - Click **"Create a design"** and choose a format (Presentation, Poster, etc.).
  - Use **"Magic Design"** – upload your lecture outline and let AI generate slide options.
  - Customize with drag-and-drop elements; use the AI image generator for custom graphics.
  - Download as PDF, PowerPoint, or share a view-only link.
- **Screenshot Walkthrough:** Show the Magic Design upload screen and the generated slide templates. Then show the editor with AI-generated images and the brand kit palette applied. Highlight the "Share" and "Download" buttons.

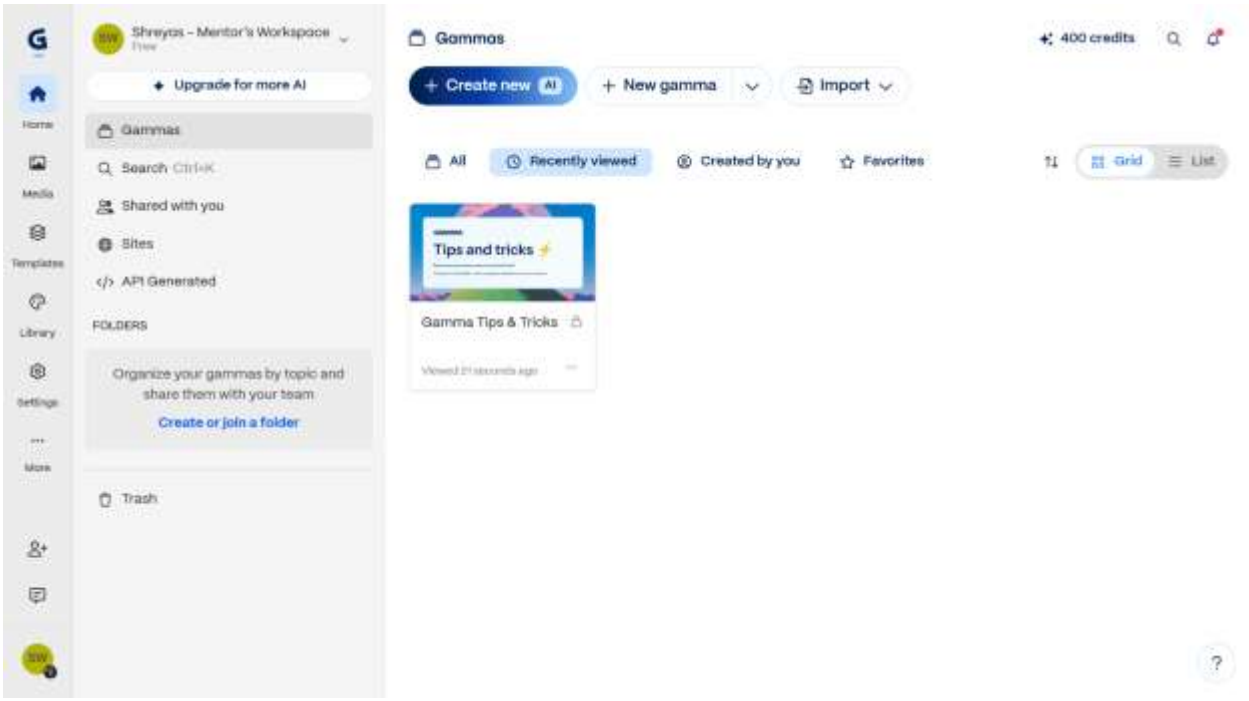




- **Key Advantages Over Competitors:**
  - Thousands of education-specific templates for slides, posters, and handouts.
  - Drag-and-drop simplicity — no design skill required.
  - Magic Design tool converts a rough outline into a styled deck instantly.
  - Built-in AI image generator creates custom diagrams and illustrations.
  - Brand kit ensures your department's colors and logo stay consistent.
- **Pricing:** Free + Paid

25. Gamma

- **Website:** https://gamma.app
- **Primary Purpose:**
  - Generate polished, interactive presentations from text outlines in seconds.
  - Output web-ready formats that work seamlessly on any device.
  - Reduce manual formatting with AI-driven layout and styling automation.
- **Quick Start Steps:**
  - Visit https://gamma.app and log in with Google.
  - Click **"Create new"** and choose **"Paste in text"** or **"Generate"**.
  - Provide your outline or topic – Gamma builds a multi-slide deck.
  - Preview the deck and tweak the theme, layout, or content in the editor.
  - Share as a live link, embed in your LMS, or export to PPT/PDF.
- **Screenshot Walkthrough:** Show the text input box, then the generated slide deck with interactive elements. Highlight the theming options and the shareable link with view analytics.

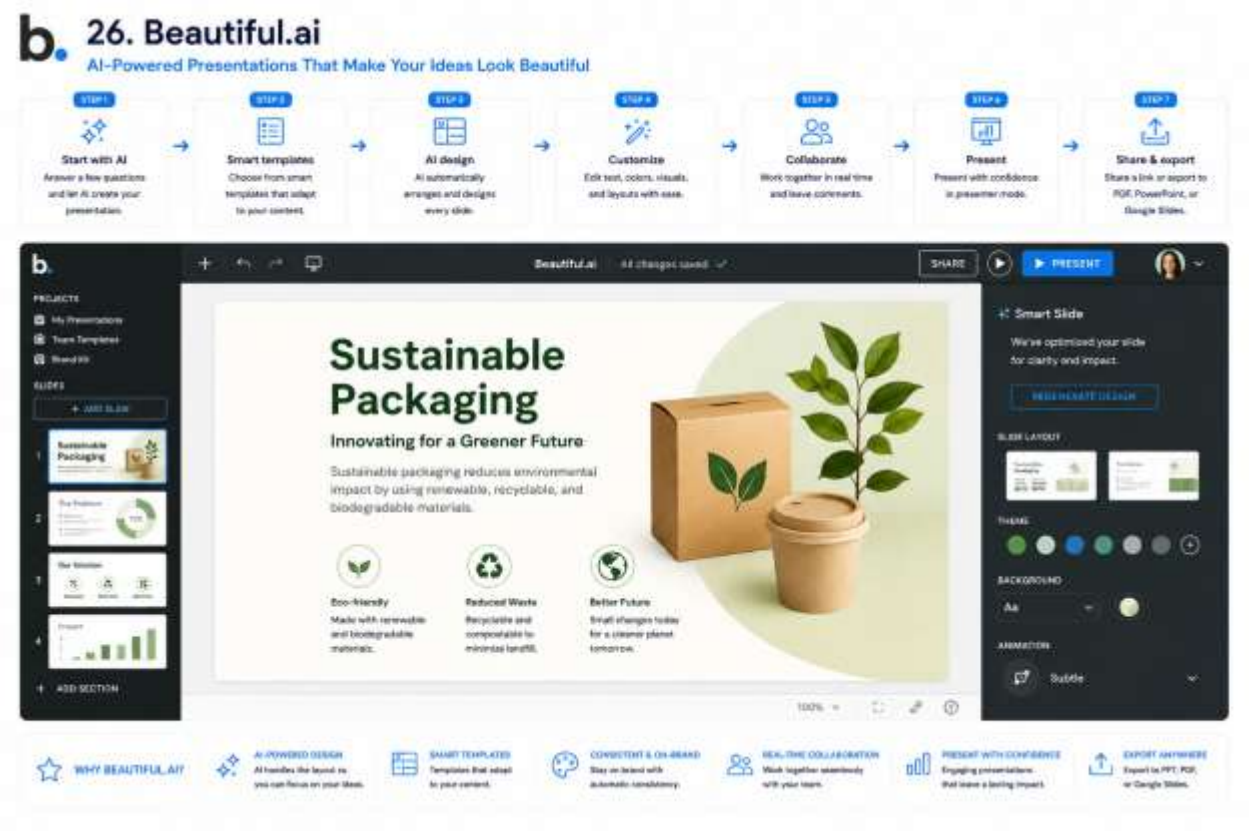




- **Key Advantages Over Competitors:**
  - Turns a text outline or document into a complete presentation in seconds.
  - Responsive layouts look good on a projector, tablet, or phone.
  - Interactive embeds (polls, videos) keep lectures engaging.
  - Minimal formatting tweaks needed — the AI gets layout right the first time.
  - Export to PowerPoint or PDF with one click.
- **Pricing:** Freemium

26. Beautiful.ai

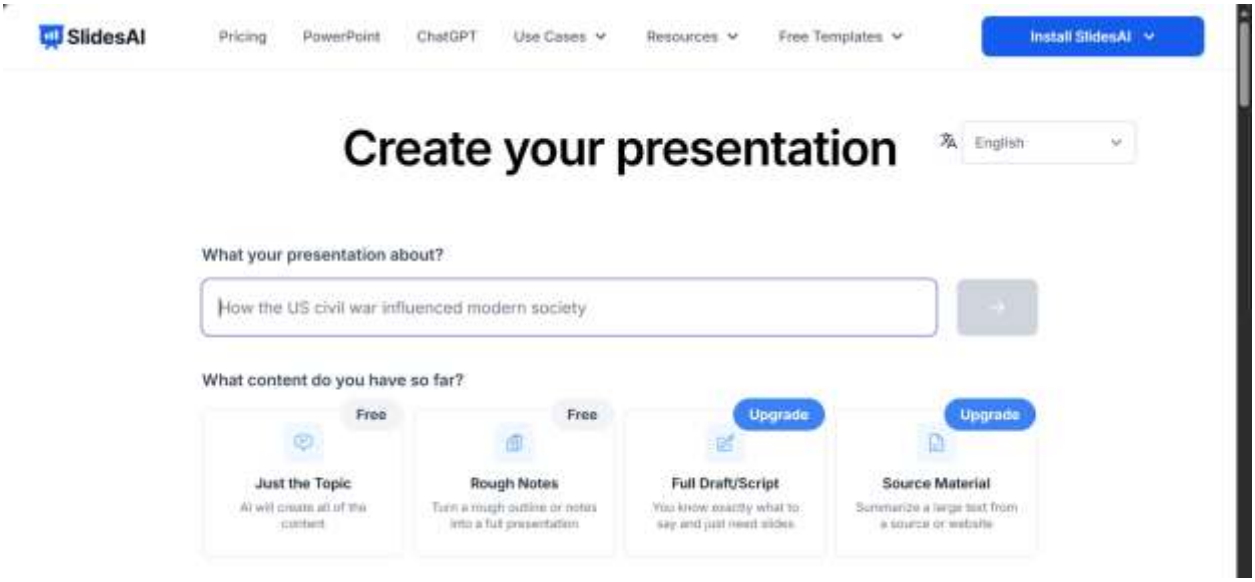
- **Website:** https://beautiful.ai
- **Primary Purpose:**
  - Enforce design consistency with smart templates that auto-adjust layout.
  - Produce uniformly polished slide decks for lectures and conferences.
  - Simplify collaborative deck building for co-teaching and departmental projects.
- **Quick Start Steps:**
  - Sign up at https://beautiful.ai and start a new presentation.
  - Choose a smart template or start from a blank deck.
  - Add content – slides automatically resize and align elements.
  - Use the **"Inspiration"** panel to browse layout variations for each slide.
  - Share a link for real-time collaboration with colleagues.
- **Screenshot Walkthrough:** Show a slide being edited with the smart guidelines snapping elements into place. Highlight the variation panel showing alternative layouts. Show the collaboration cursor and comments.

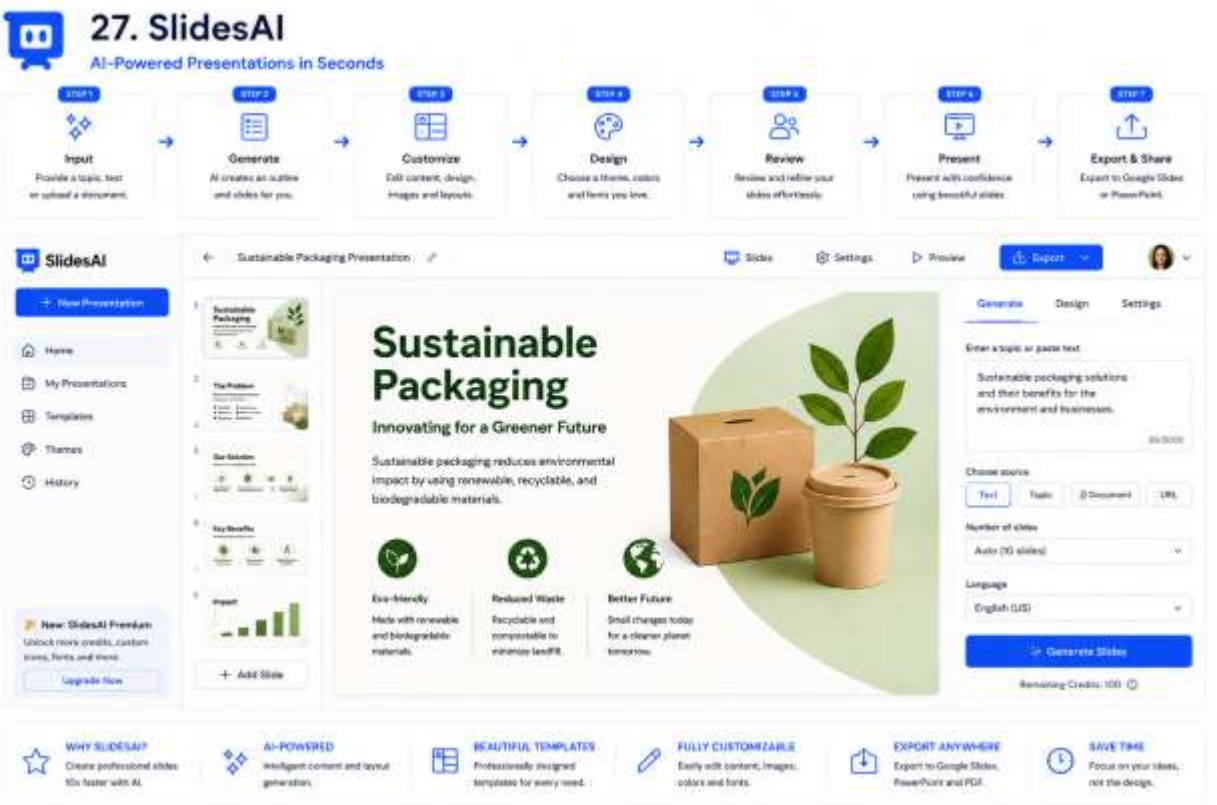


- **Key Advantages Over Competitors:**
  - Smart templates auto-adjust spacing and alignment as you add content.
  - Every deck looks professionally designed, even with no design training.
  - Strict design rules enforce visual consistency across all your slides.
  - Real-time team collaboration for co-teaching or departmental decks.
  - Saves hours of fiddling with text boxes and margins.
- **Pricing:** Paid

27. SlidesAI

- **Website:** https://slidesai.io
- **Primary Purpose:**
    - Convert lecture notes and documents into slides directly within Google Slides.
    - Summarize long texts into concise bullet points automatically.
    - Streamline the slide creation process with a no-frills, focused add-on.
- **Quick Start Steps:**
    - Install the SlidesAI add-on from the Google Workspace Marketplace.
    - Open a new Google Slides presentation and launch SlidesAI from the Extensions menu.
    - Paste your text (or let it read from your Doc) and choose the number of slides.
    - Click **"Create Slides"** – the AI generates a structured deck.
    - Review and manually adjust the generated slides as needed.
- **Screenshot Walkthrough:** Show the SlidesAI sidebar with the text input box and slide count selector. Then show the resulting Google Slides deck with auto-generated bullet points and images. Highlight the simple, clean output.



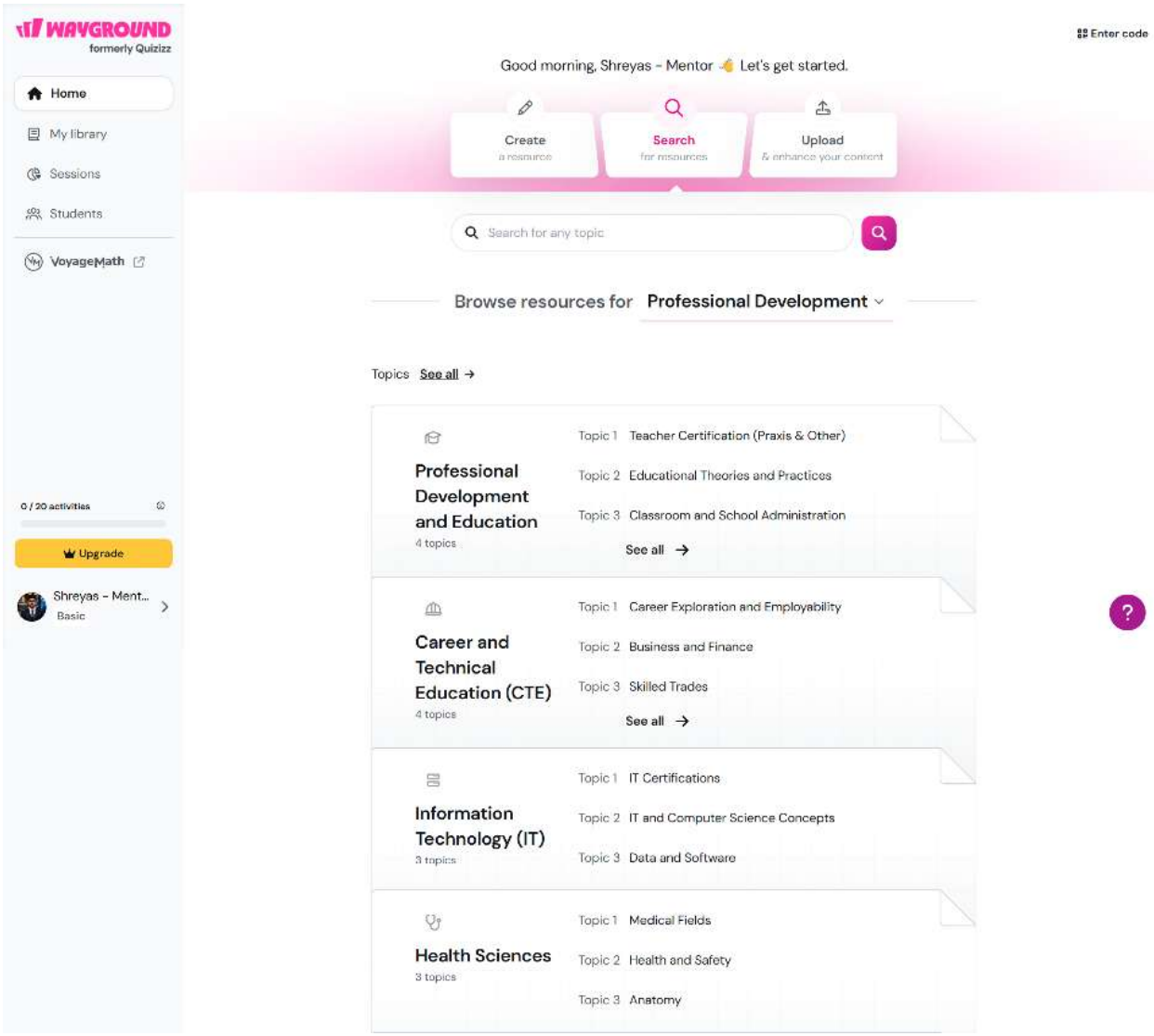


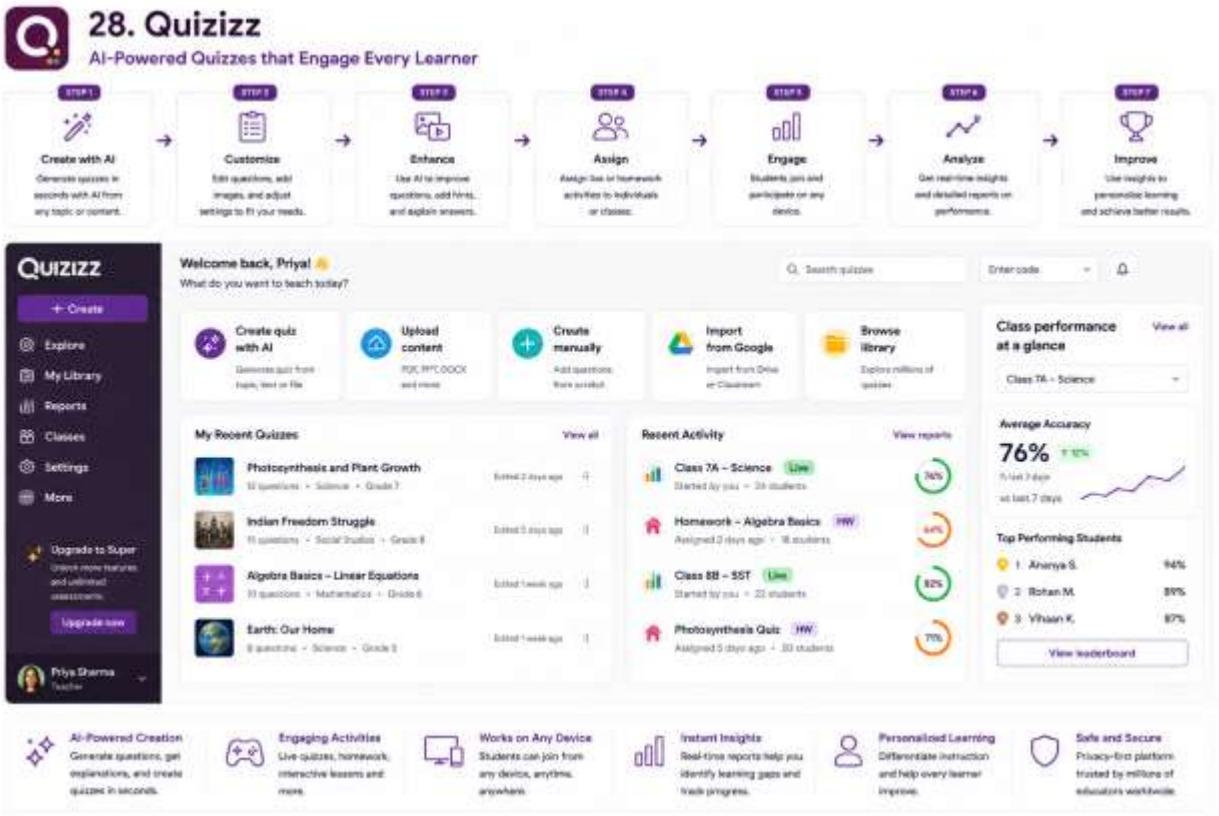
- **Key Advantages Over Competitors:**
  - Add-on inside Google Slides — no new app to learn.
  - Paste in your lecture notes and get a structured slide deck.
  - AI summarizes long passages into bullet points automatically.
  - Ideal for converting a seminar paper into a conference talk.
  - Lightweight and focused — does one job extremely well.
- **Pricing:** Freemium

SECTION 7: TESTING, EVALUATION & FEEDBACK

28. Quizizz

- **Website:** https://quizizz.com
- **Primary Purpose:**
  - Create gamified quizzes that boost student engagement and retention.
  - Access real-time diagnostics and gradebook analytics for data-driven instruction.
  - Support both live in-class sessions and asynchronous homework assignments.
- **Quick Start Steps:**
  - Sign up at https://quizizz.com and create a new quiz.
  - Use the **AI question generator** or pick from the library.
  - Set the mode (live or homework) and share the join code with students.
  - Launch the quiz – students answer on their devices while you see live results.
  - After the session, review the detailed report per question and per student.
- **Screenshot Walkthrough:** Show the quiz creation screen with AI-suggested questions. Then show the live dashboard with a bar chart of responses and a student leaderboard. Highlight the post-quiz report with skill breakdowns.

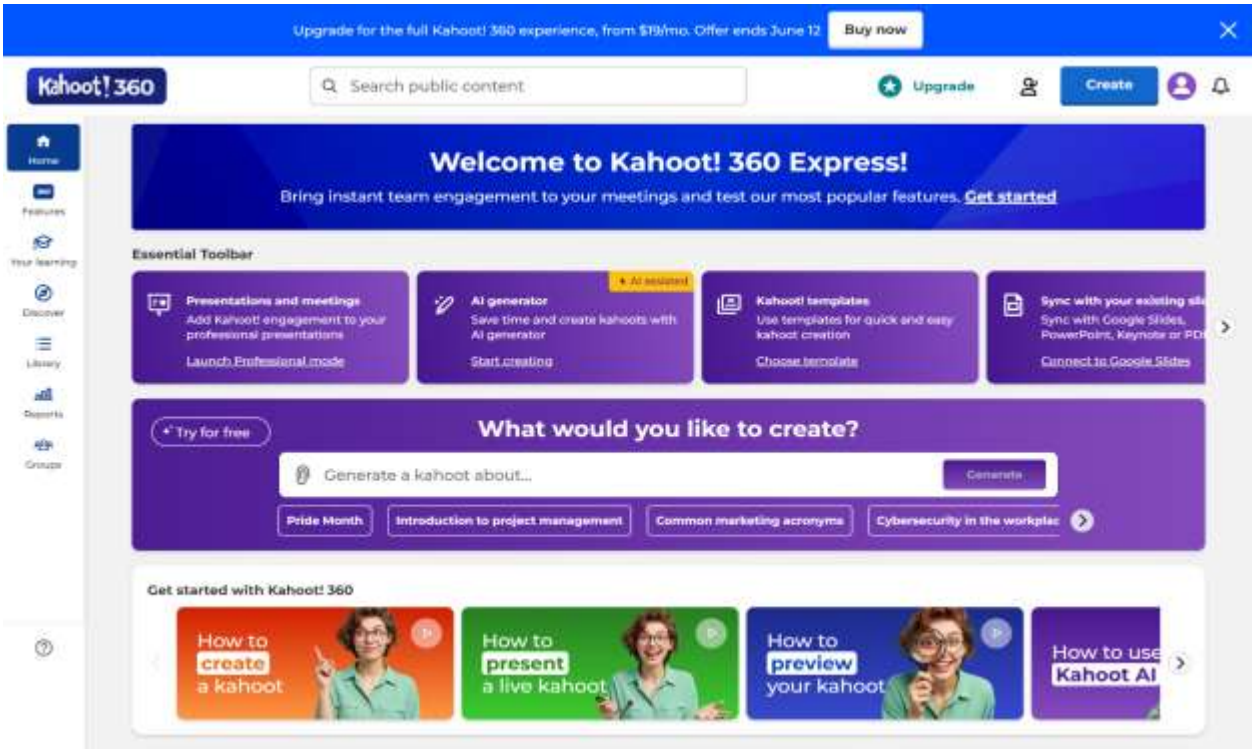

WAYGROUND
formerly Quizizz
Home
My library
Sessions
Students
VoyageMath
0 / 20 activities
Upgrade
Shreyas - Ment...
Basic
Enter code
Good morning, Shreyas - Mentor Let's get started.
Create
a resource
Search
for resources
Upload
& enhance your content
Search for any topic
Browse resources for Professional Development
Topics See all
Professional Development and Education
4 topics
Topic 1 Teacher Certification (Praxis & Other)
Topic 2 Educational Theories and Practices
Topic 3 Classroom and School Administration
See all
Career and Technical Education (CTE)
4 topics
Topic 1 Career Exploration and Employability
Topic 2 Business and Finance
Topic 3 Skilled Trades
See all
Information Technology (IT)
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Topic 1 IT Certifications
Topic 2 IT and Computer Science Concepts
Topic 3 Data and Software
Health Sciences
3 topics
Topic 1 Medical Fields
Topic 2 Health and Safety
Topic 3 Anatomy

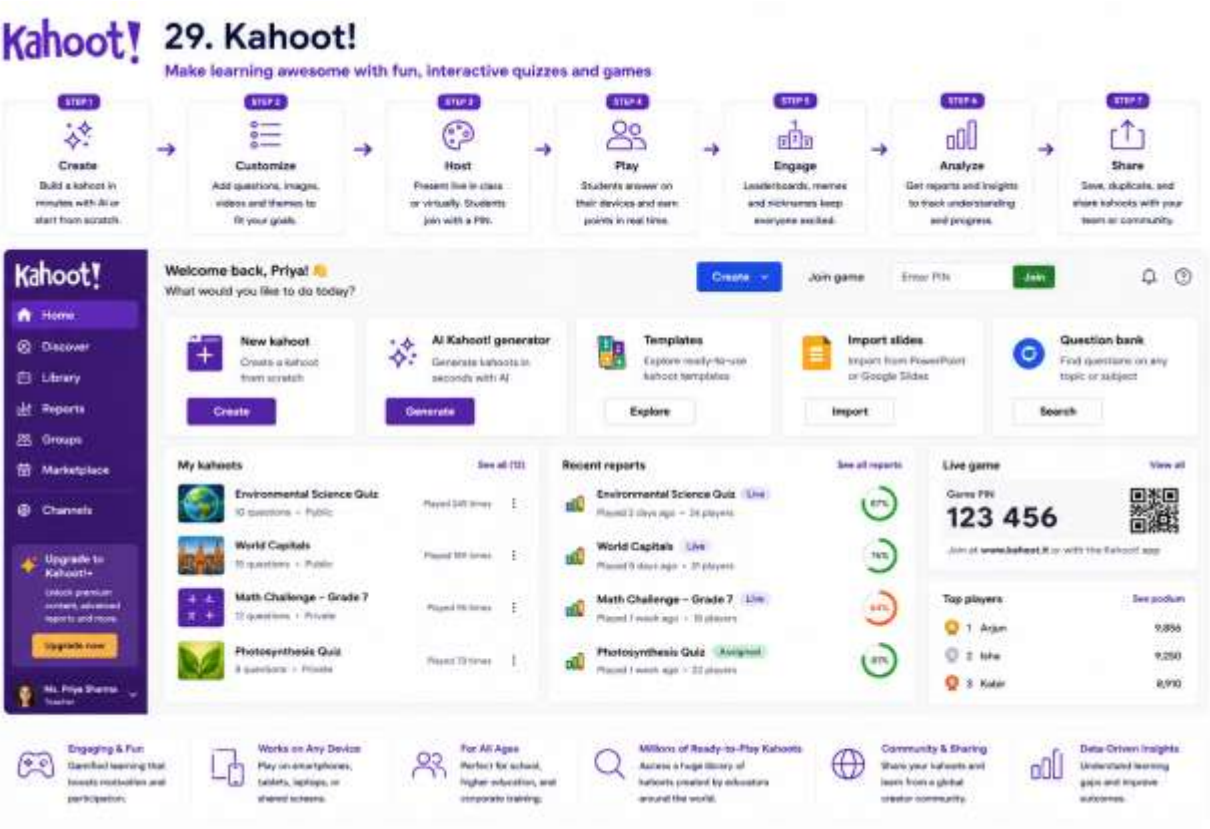


- **Key Advantages Over Competitors:**
  - Gamified quizzes that feel like a game, not a test.
  - Live dashboard shows per-question performance across the whole class.
  - Question bank covers all major disciplines, ready to remix.
  - Students can complete assignments asynchronously at their own pace.
  - Integrates with Google Classroom and most LMS platforms.
- **Pricing:** Freemium

29. Kahoot

- **Website:** https://kahoot.com
- **Primary Purpose:**
  - Deliver high-energy formative assessments in large lecture halls.
  - Leverage a globally recognized platform requiring zero student login.
  - Identify knowledge gaps instantly with detailed post-game reports.
- **Quick Start Steps:**
  - Go to https://kahoot.com and log in as a teacher.
  - Create a new kahoot or duplicate and edit an existing one.
  - Add questions (multiple-choice, true/false) with optional images/video.
  - Host live – students join via kahoot.it with the displayed PIN.
  - After the game, download the Excel report of student responses.
- **Screenshot Walkthrough:** Show the host screen with the PIN displayed and the lobby waiting for players. Then show a question in play with the color/shape choices and a results bar chart. Highlight the podium screen.



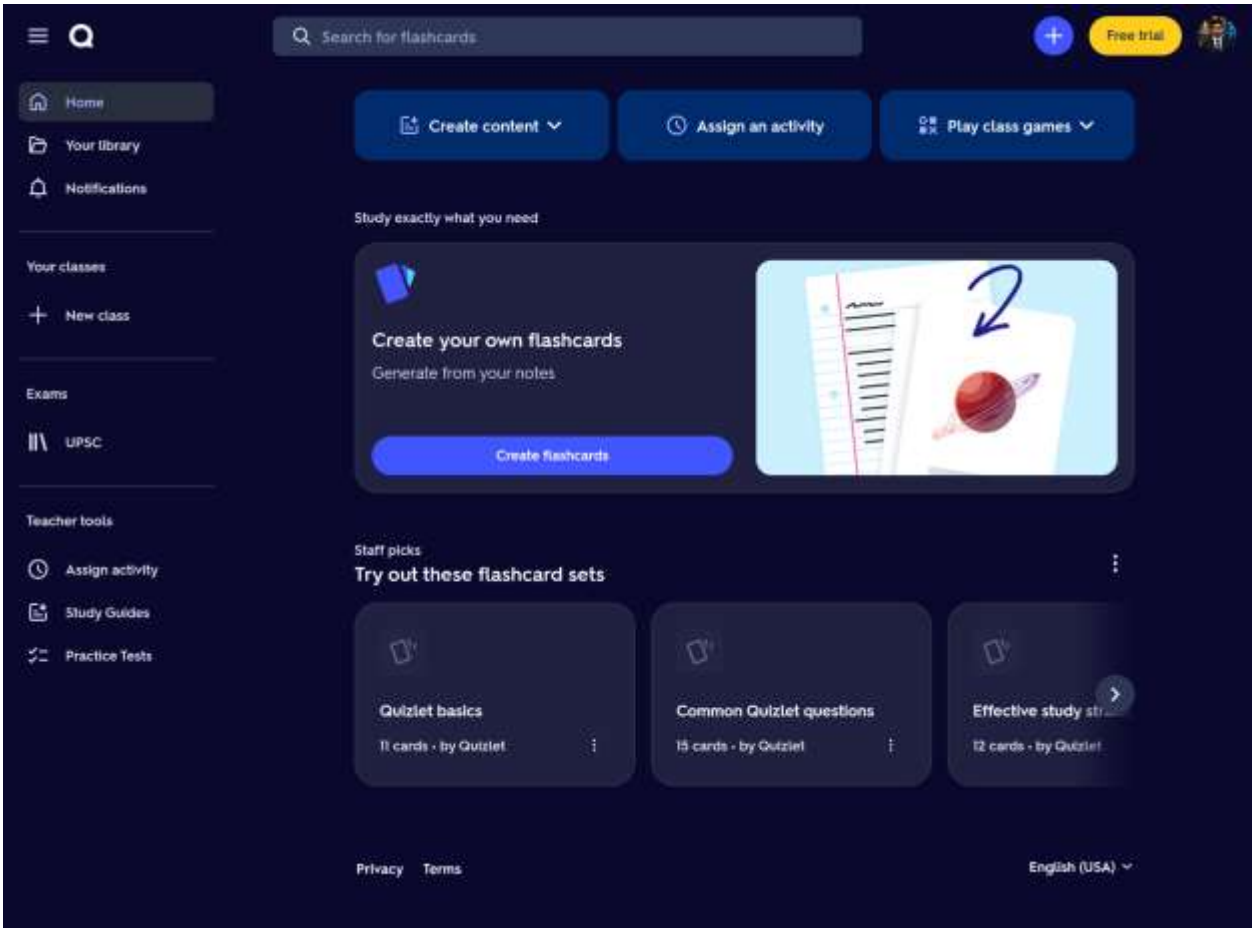


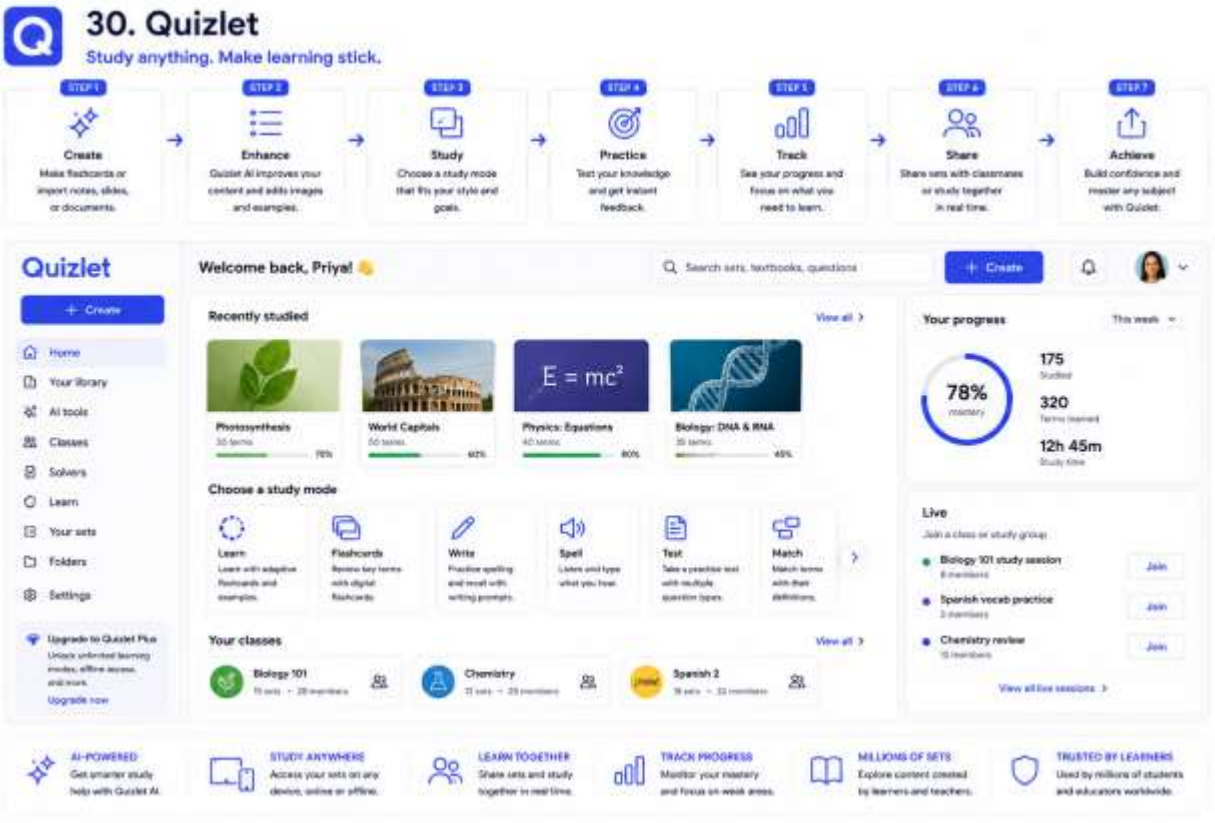
- **Key Advantages Over Competitors:**
  - High-energy music and countdowns create a buzz in large lectures.
  - Zero-login mode lets students join via a simple PIN code.
  - Global brand — most students already know how to play.
  - Data-rich reports show exactly which concepts need re-teaching.
  - Works equally well for in-person, hybrid, and fully online classes.

- **Pricing:** Freemium

30. Quizlet

- **Website:** https://quizlet.com
- **Primary Purpose:**
    - Provide digital flashcards and adaptive study aids for student revision.
    - Tap into a massive library of pre-made term sets across disciplines.
    - Enable mobile, on-the-go learning with gamified practice modes.
- **Quick Start Steps:**
    - Visit https://quizlet.com and create a free account.
    - Click **"Create"** to build a new study set; enter terms and definitions (or import).
    - Use the **"Magic Notes"** feature to turn your lecture notes into flashcards automatically.
    - Share the set link with students; they can study in flashcard, learn, or test mode.
    - Monitor class progress if using Quizlet Teacher (paid).
- **Screenshot Walkthrough:** Show the set creation interface with Magic Notes importing a text. Then show the student view with flashcards, and the "Learn" mode adaptive quiz. Highlight the progress tracking on the class dashboard.

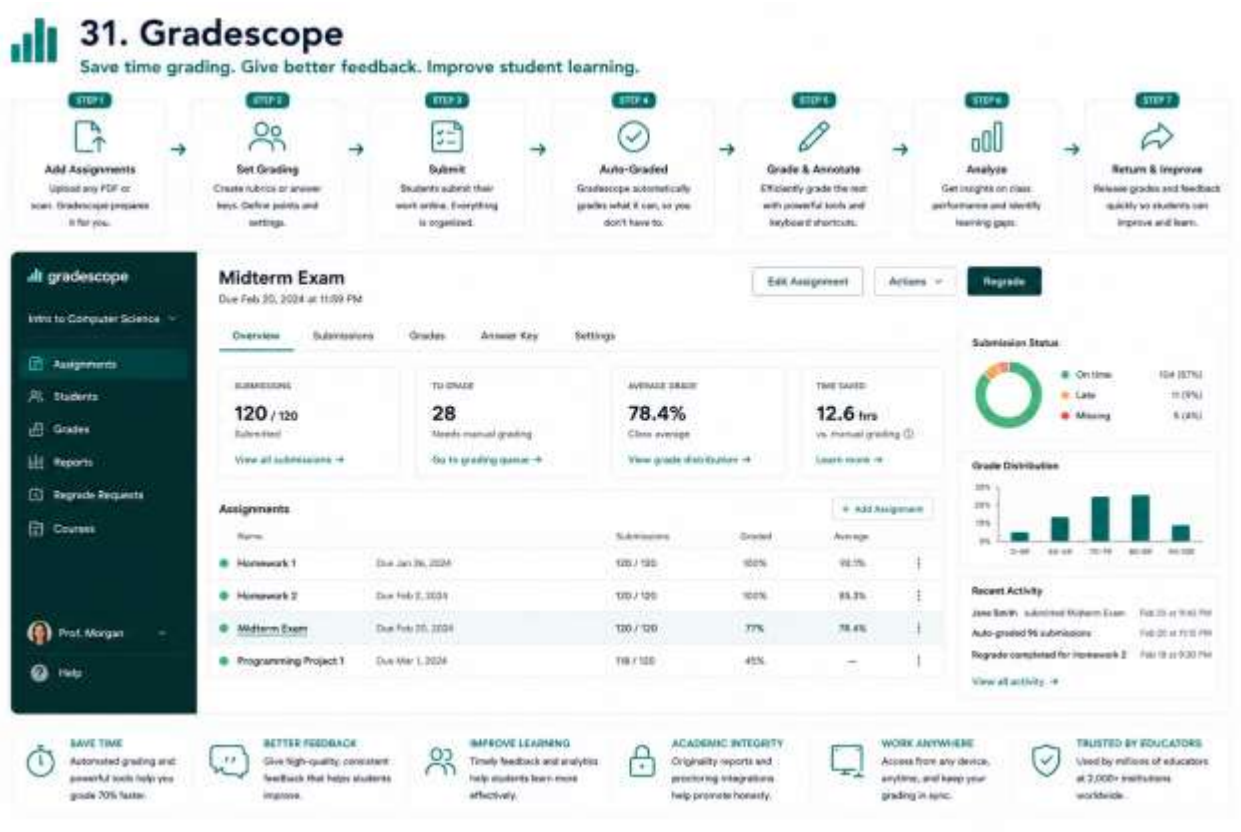




- **Key Advantages Over Competitors:**
  - Digital flashcards with spaced repetition for long-term retention.
  - "Learn" mode adapts difficulty based on student performance.
  - Vast pre-made study sets for biology, anatomy, languages, and more.
  - Students can use it on their phone during commute or break time.
  - Easy for instructors to create a set and share it with a class link.
- **Pricing:** Freemium

31. Gradescope

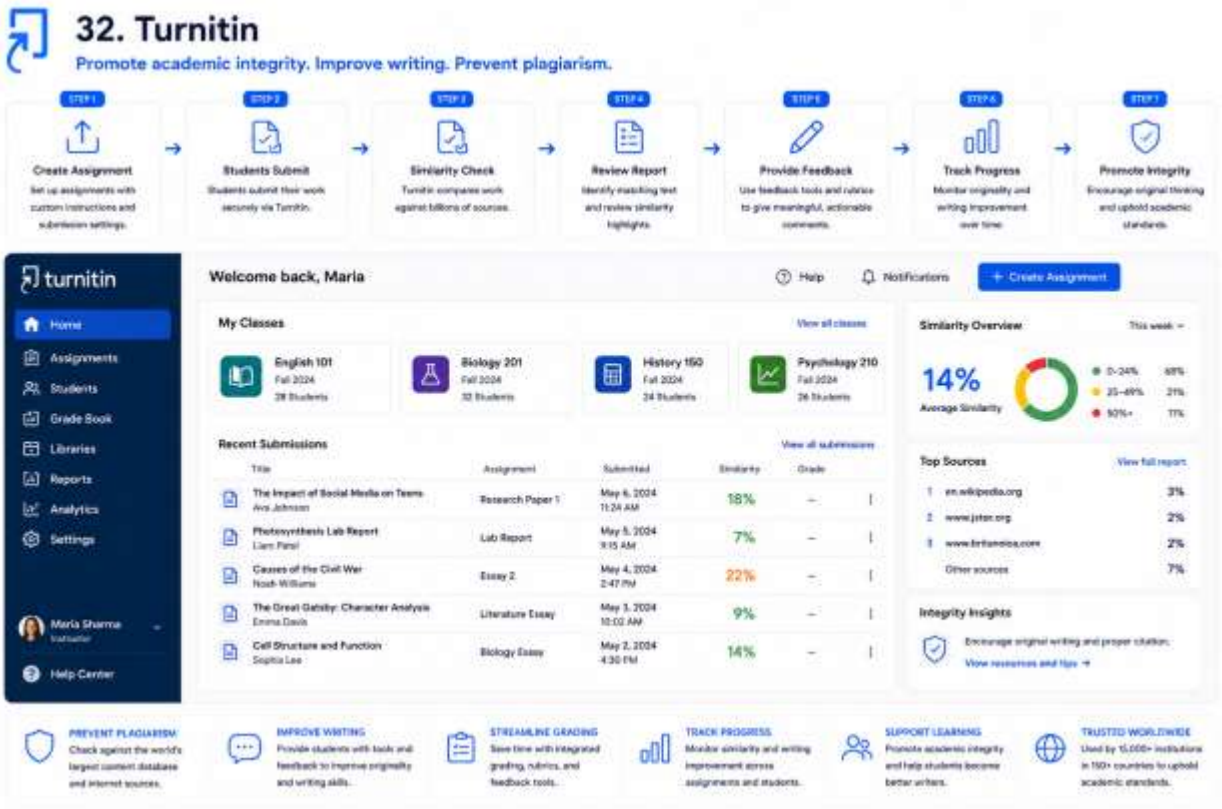
- **Website:** https://gradescope.com
- **Primary Purpose:**
  - Optimize grading for STEM problem sets, coding assignments, and exams.
  - Apply uniform rubrics across graders with answer-grouping logic.
  - Handle hundreds of submissions efficiently while ensuring consistency.
- **Quick Start Steps:**
  - Log in at https://gradescope.com with your institutional account.
  - Create an assignment and upload a blank template or answer key.
  - Students upload their work; Gradescope's AI groups similar answers.
  - Apply the rubric to each group – grading is uniform across all identical responses.
  - Return graded work and view detailed question-level statistics.
- **Screenshot Walkthrough:** Show the grading interface with grouped student answers and a rubric sidebar. Highlight the "Group" view and the analytics dashboard showing common mistakes.



- **Key Advantages Over Competitors:**
  - Designed for problem-set-heavy STEM courses (calculus, physics, CS).
  - AI groups similar answers so you grade them all at once.
  - Rubrics applied uniformly across graders, eliminating inconsistency.
  - Handles 500+ student submissions without slowing down.
  - Detailed analytics show which problems stumped the most students.
- **Pricing:** Paid

32. Turnitin

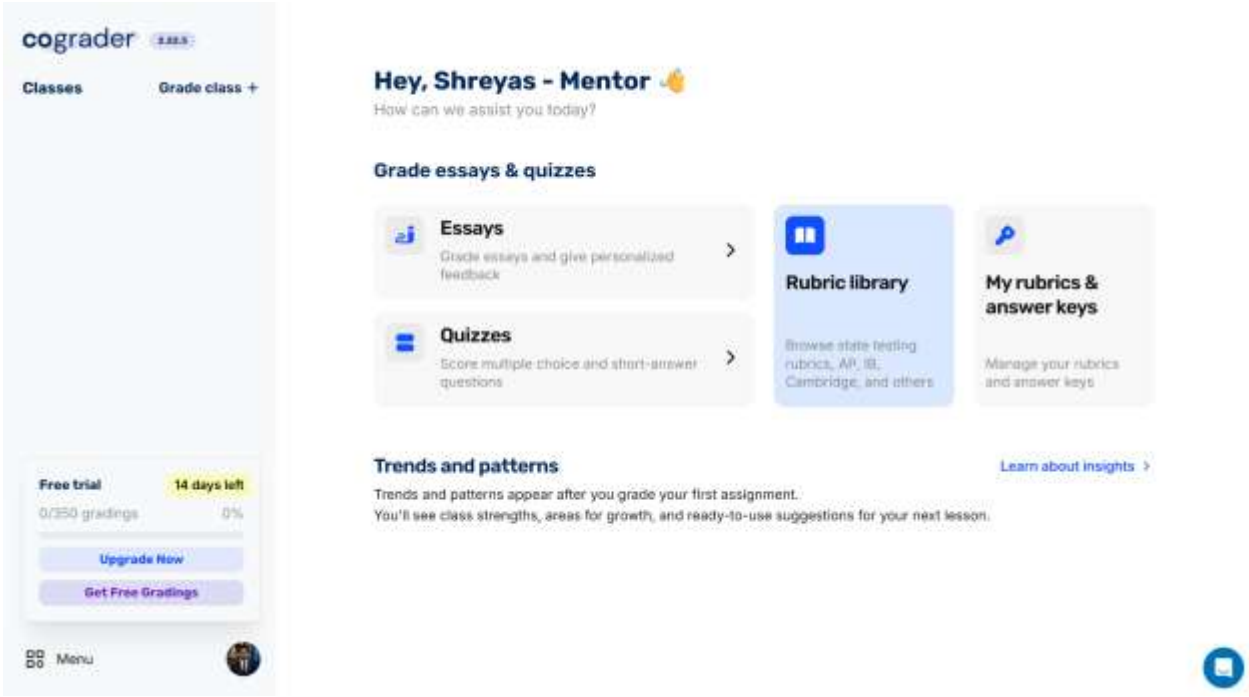
- **Website:** https://turnitin.com
- **Primary Purpose:**
  - Validate academic integrity through industry-standard plagiarism detection.
  - Generate detailed originality reports for student assignments and manuscripts.
  - Integrate seamlessly with major LMS platforms for a streamlined workflow.
- **Quick Start Steps:**
  - Access Turnitin via your institution's LMS (Canvas, Moodle, Blackboard).
  - Create an assignment and enable Turnitin plagiarism check.
  - Students submit papers; Turnitin processes them and generates a similarity report.
  - Open the report to view matched sources, similarity percentage, and flagged passages.
  - Use the Feedback Studio to add comments and a rubric score.
- **Screenshot Walkthrough:** Show the assignment inbox with similarity scores. Click into a paper and show the originality report with matched sources highlighted. Show the Feedback Studio with comments and a rubric.

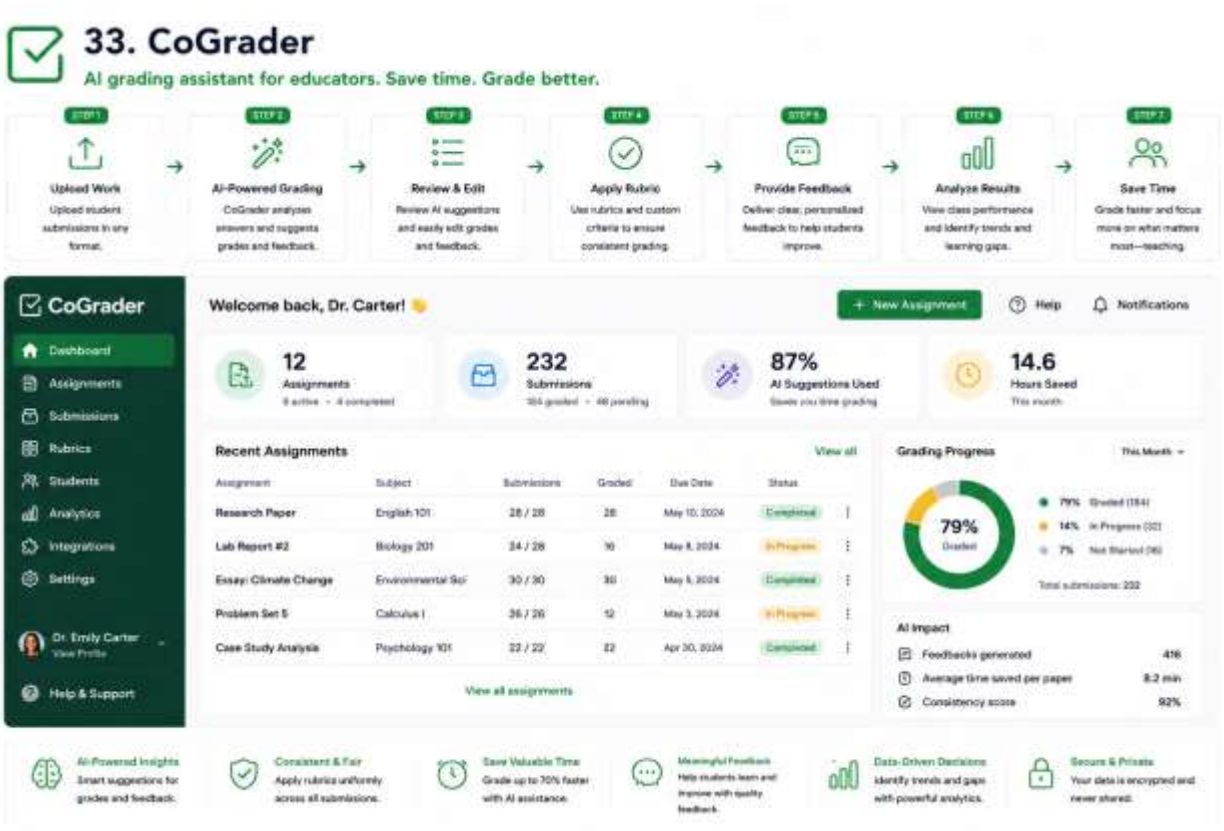


- **Key Advantages Over Competitors:**
  - The gold standard for plagiarism detection accepted by journals and universities.
  - Database includes billions of web pages, student papers, and publications.
  - Detailed originality report highlights specific passages for review.
  - Integrated with major LMS platforms for seamless assignment submission.
  - Also includes a grading and peer review suite (Feedback Studio).
- **Pricing:** Institutional

33. CoGrader

- **Website:** https://cograder.com
- **Primary Purpose:**
  - Automate first-pass essay grading while preserving teacher oversight.
  - Generate personalized, rubric-aligned feedback comments quickly.
  - Free up time for more meaningful student interaction and revision guidance.
- **Quick Start Steps:**
  - Sign up at https://cograder.com and link your Google Classroom or upload a roster.
  - Create an assignment, attach your rubric, and collect student submissions.
  - Click **“Grade”** – CoGrader reads each essay and applies the rubric.
  - Review the AI-generated feedback and scores; edit as needed.
  - Release feedback to students in bulk or individually.
- **Screenshot Walkthrough:** Show the dashboard with a list of graded essays and scores. Click into one to see the annotated essay with inline comments matched to rubric criteria. Highlight the “approve” button.

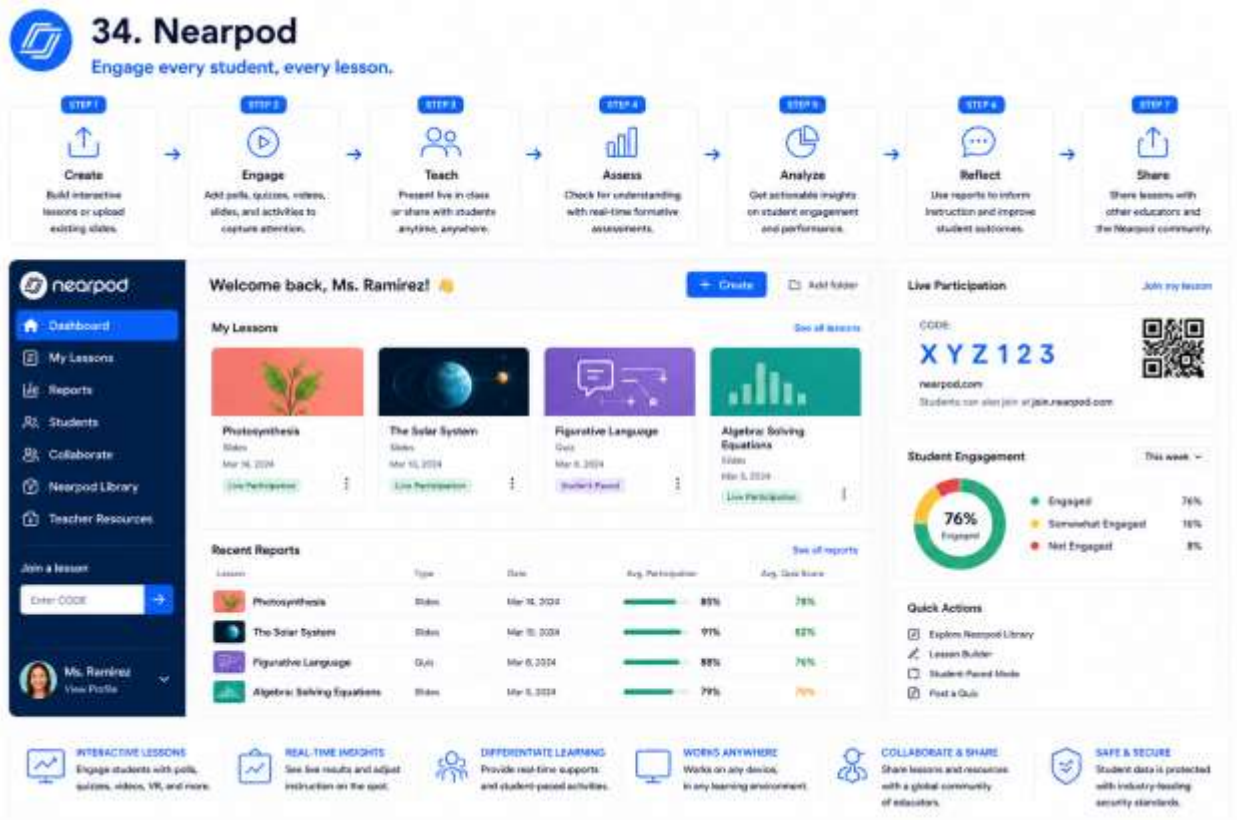




- **Key Advantages Over Competitors:**
  - Upload a rubric and student essays — get graded drafts in minutes.
  - Generates personalized, constructive comments tied to rubric criteria.
  - Cuts essay grading time by 50–70% for first-pass feedback.
  - Custom rubrics allow you to enforce department-specific writing standards.
  - Transparent: you see every suggestion and can edit before releasing.
- **Pricing:** Freemium

34. Nearpod

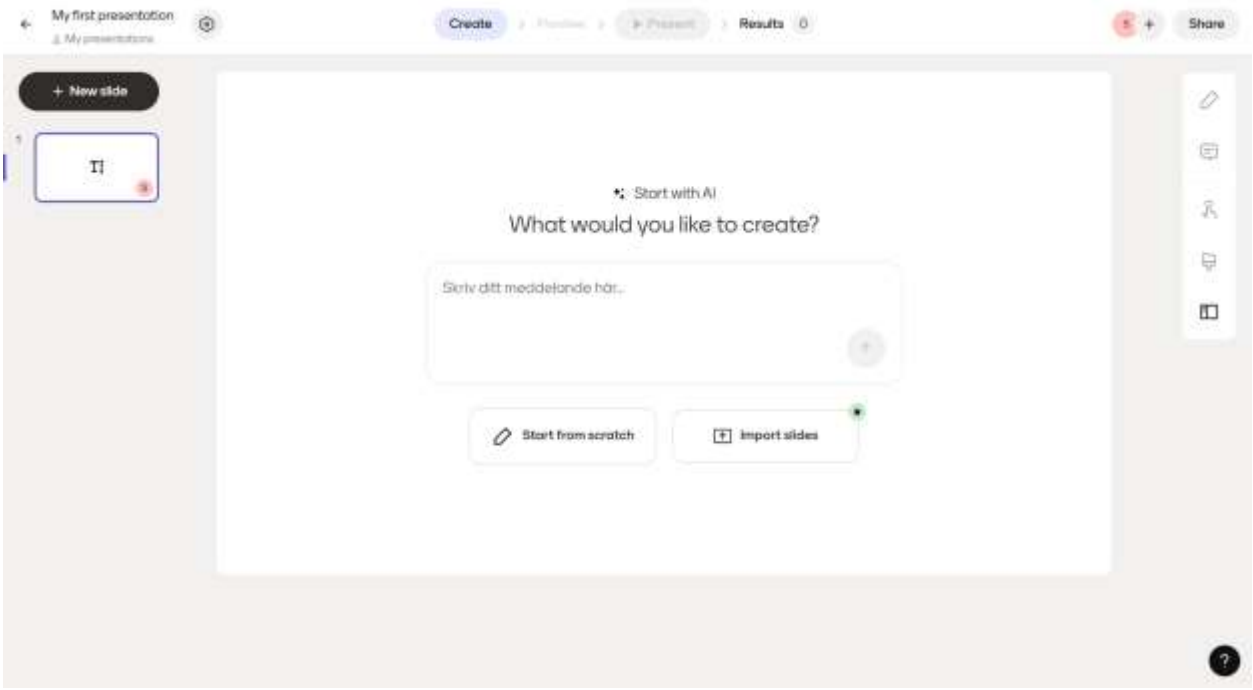
- **Website:** https://nearpod.com
- **Primary Purpose:**
    - Deliver interactive lessons that sync content to every student's device.
    - Embed polls, quizzes, VR trips, and drawing boards within one platform.
    - Track individual participation and understanding throughout the lecture.
- **Quick Start Steps:**
    - Log in to https://nearpod.com and create a new lesson.
    - Upload existing slides (PPT/PDF) or build from scratch, adding interactive slides.
    - Launch the lesson live; students join with a code at nearpod.com/student.
    - You control the pace and see student responses in real time.
    - Access post-session reports showing each student's answers and participation.
- **Screenshot Walkthrough:** Show the teacher dashboard with a slide preview and a live poll result. Then show the student view on a mobile device. Highlight the VR field trip slide and the post-session report.

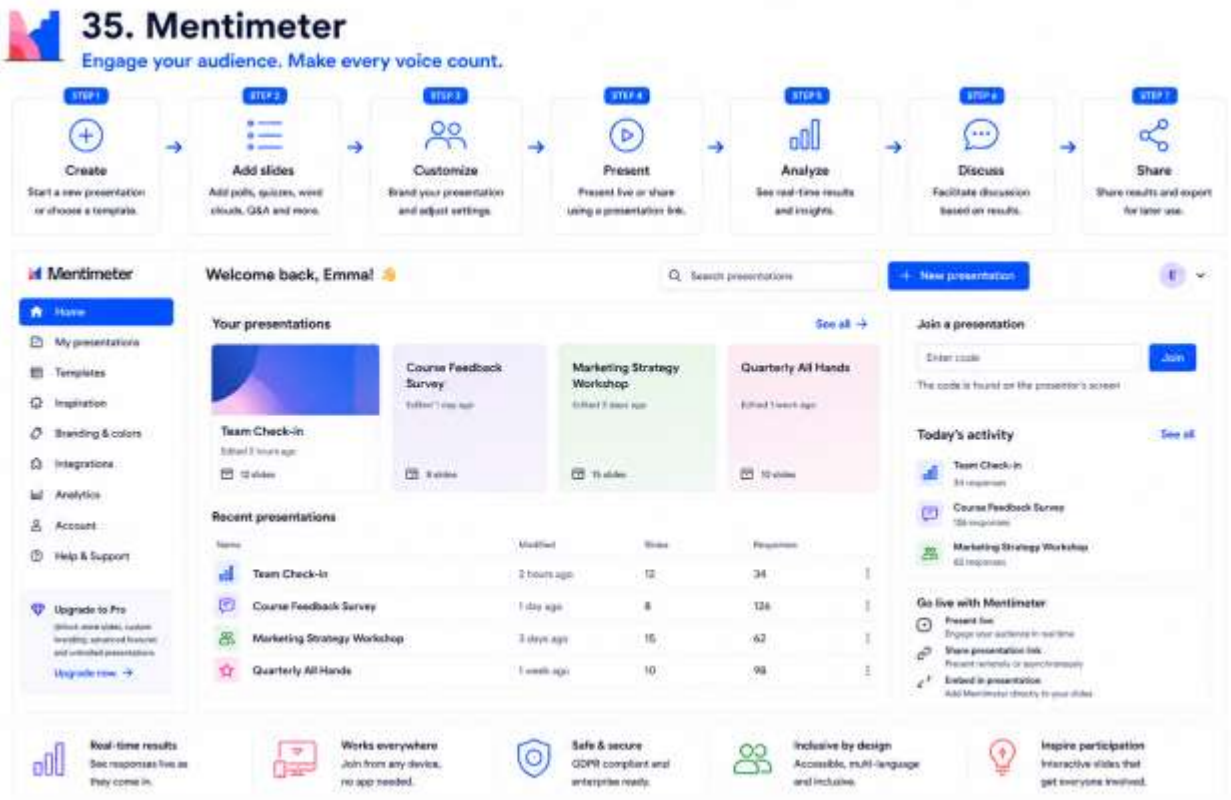


- **Key Advantages Over Competitors:**
    - Pushes slides, quizzes, and VR field trips to every student's screen.
    - Built-in formative assessment tools (draw-it, poll, collaborate board).
    - Immersive 360-degree images and virtual tours bring content to life.
    - Post-session reports show individual student participation and responses.
    - Works in any teaching modality — face-to-face, remote, or hybrid.
- **Pricing:** Freemium

35. Mentimeter

- **Website:** https://mentimeter.com
- **Primary Purpose:**
    - Engage live audiences with real-time polls, word clouds, and Q&A.
    - Visualize class sentiment instantly without requiring student accounts.
    - Break up long lectures and gather feedback that shapes the session.
- **Quick Start Steps:**
    - Go to https://mentimeter.com and log in (free plan available).
    - Create a new presentation and add slide types: Multiple Choice, Word Cloud, Open Ended, etc.
    - Present – students join by going to menti.com and entering the code at the top.
    - Responses appear live on the slide as they submit.
    - Download results as an image or Excel file after the session.
- **Screenshot Walkthrough:** Show the presenter view with a word cloud forming and the join code displayed. Then show the student phone screen entering a response. Highlight the results export button.



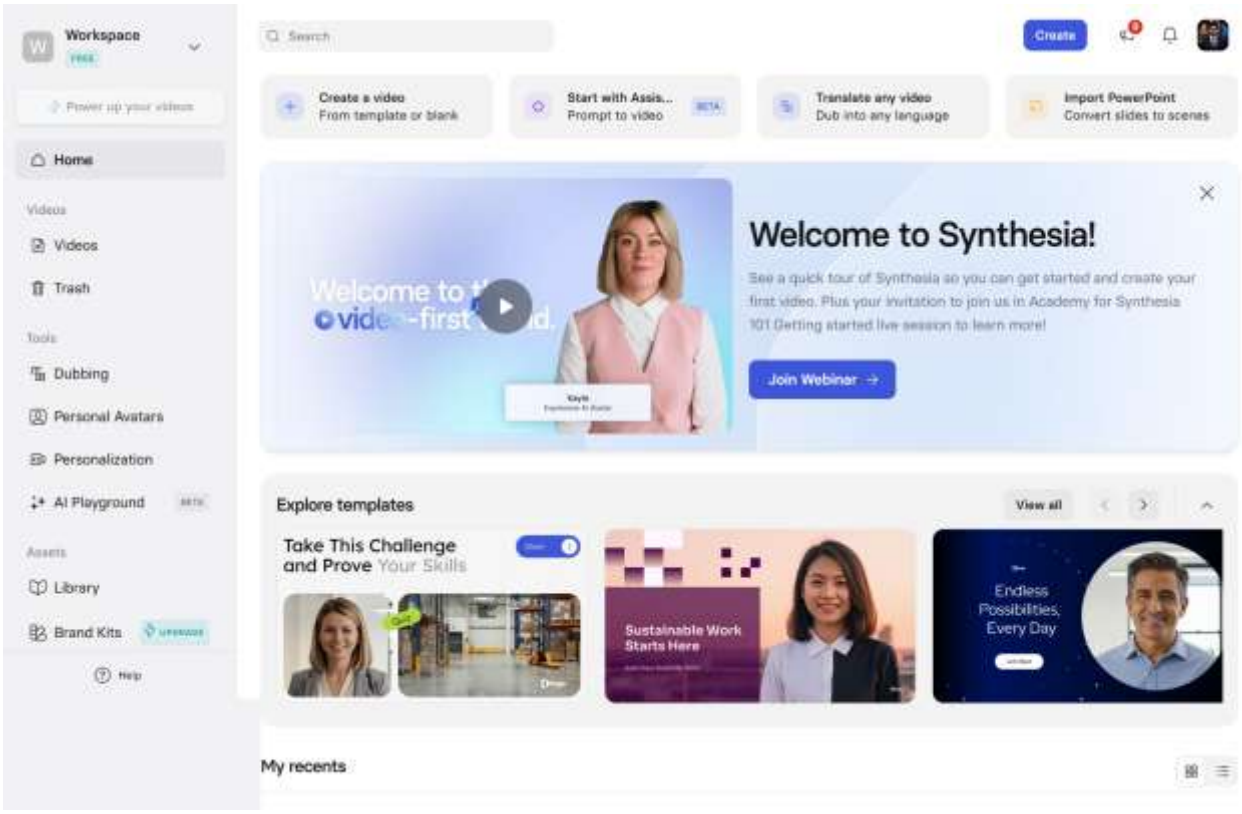


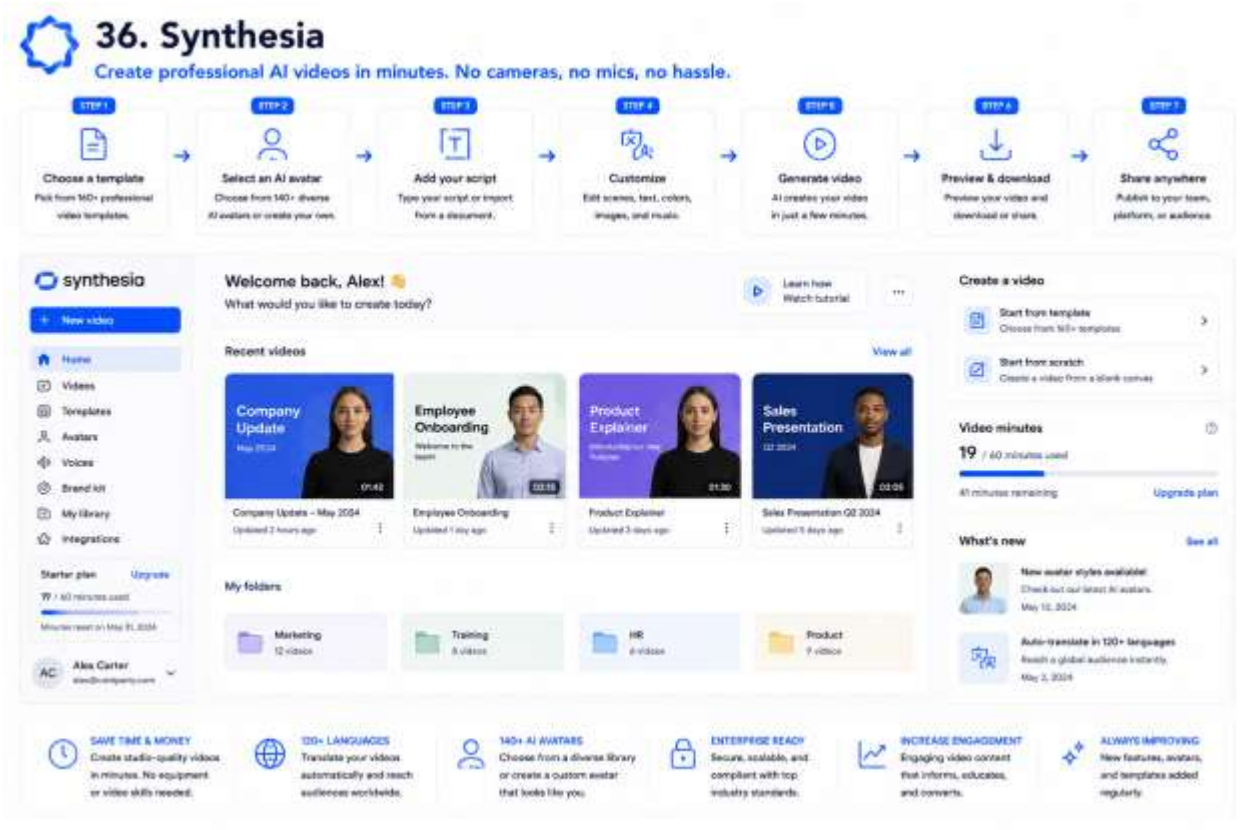
- **Key Advantages Over Competitors:**
  - Students vote via phone — no app install or account required.
  - Results appear as beautiful, animated charts in real time.
  - Word cloud feature instantly visualizes open-ended class thoughts.
  - Perfect for breaking up a 90-minute lecture into interactive segments.
  - Export poll data to track engagement trends over the semester.
- **Pricing:** Freemium

SECTION 8: MULTIMEDIA, VIDEO, & LECTURE VOICE LABS

36. Synthesia

- **Website:** https://synthesia.io
- **Primary Purpose:**
    - Create avatar-driven AI video lectures without cameras or studios.
    - Produce multilingual content with photorealistic digital presenters.
    - Scale asynchronous course updates and announcements effortlessly.
- **Quick Start Steps:**
    - Sign up at https://synthesia.io and start a new video.
    - Choose an AI avatar from the library (or create your own).
    - Type or paste your script in the text box.
    - Select a voice and language (140+ options).
    - Click **"Generate"** – the avatar delivers your script. Download or share the video.
- **Screenshot Walkthrough:** Show the script editor with avatar preview, language selection, and timeline. Then show the final rendered video with the avatar speaking. Highlight the "Generate" button and the download options.



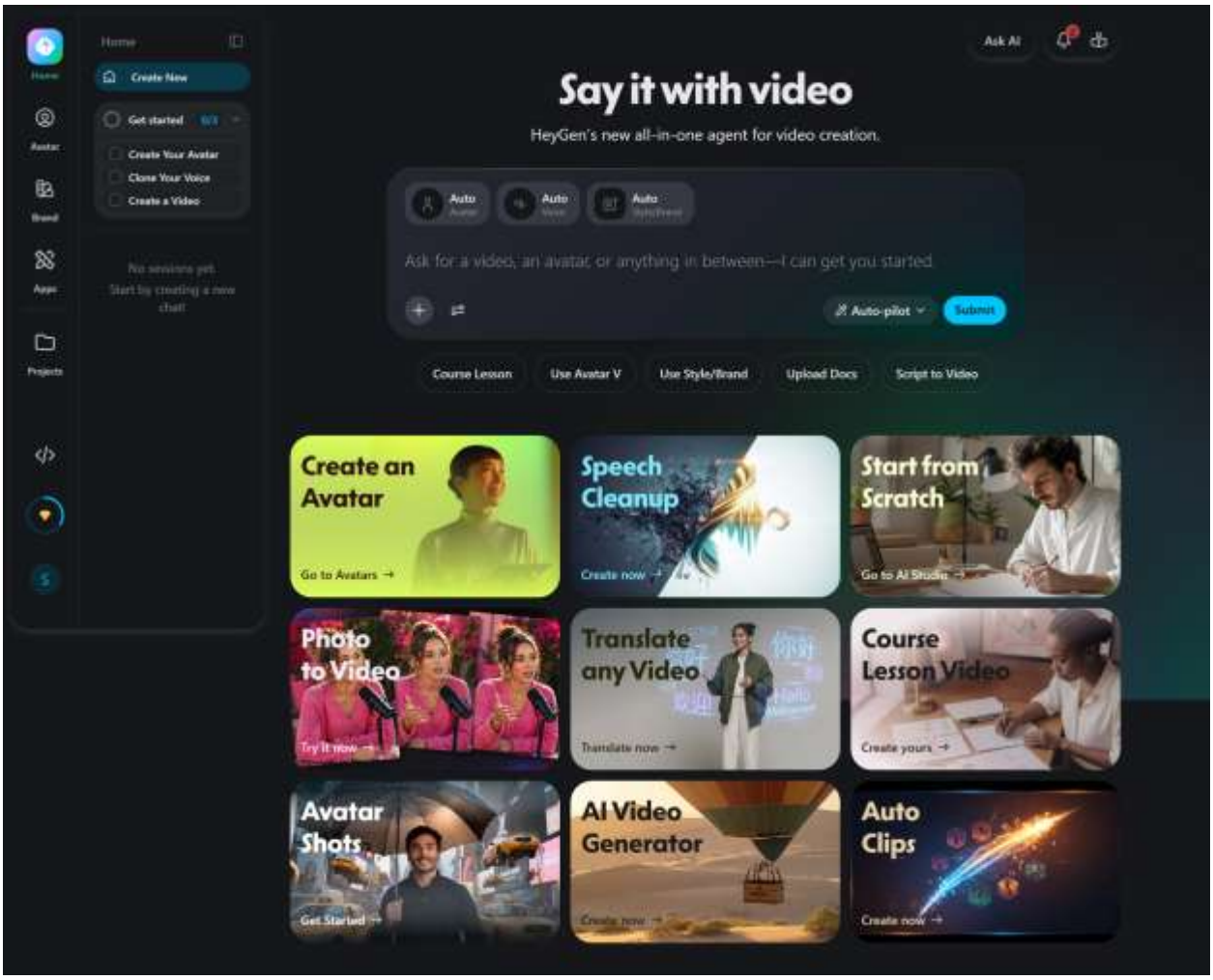


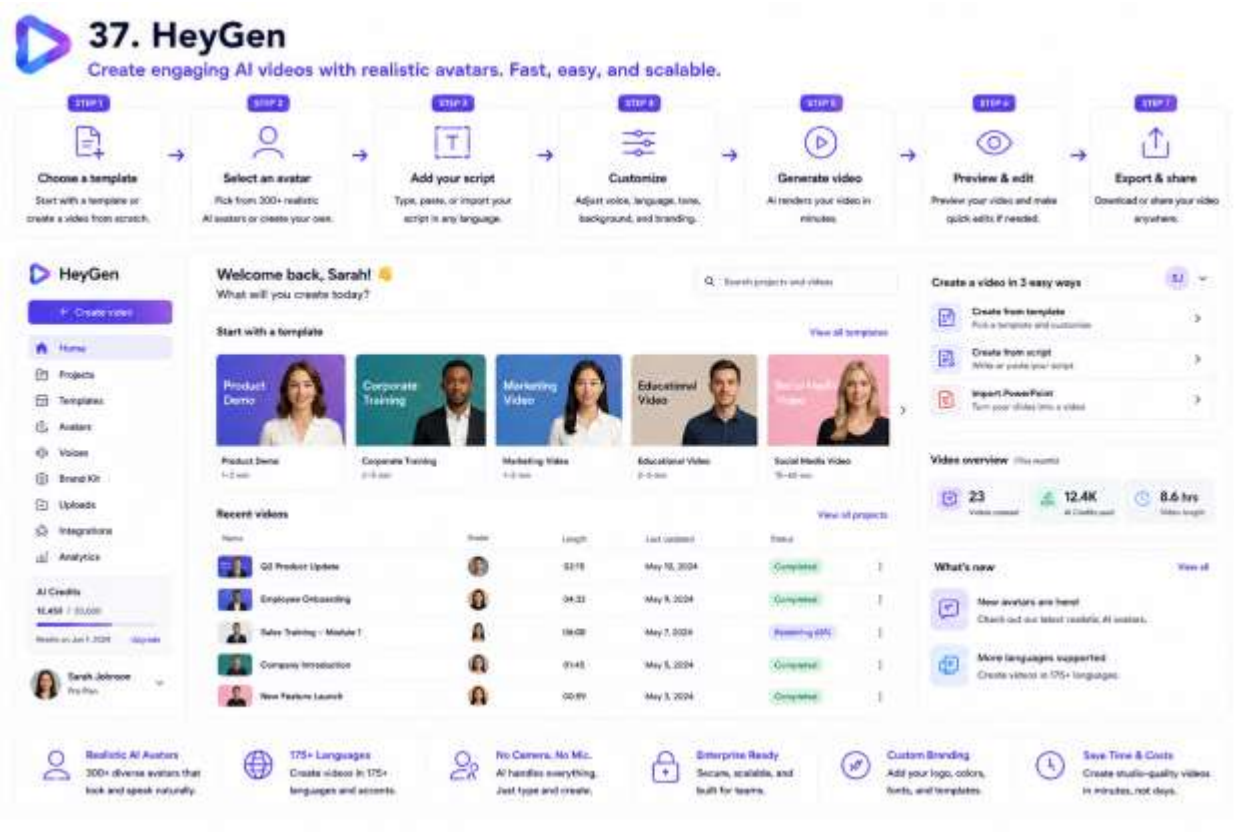
- **Key Advantages Over Competitors:**
  - Photorealistic AI avatars deliver your script without a camera crew.
  - Type text and get a talking-head video in 140+ languages.
  - No studio, lighting, or editing skills needed — just a script.

    - Ideal for pre-recorded mini-lectures and welcome videos.
    - Scalable: update a course announcement once and push to all sections.
- **Pricing:** Paid

37. HeyGen

- **Website:** https://heygen.com
- **Primary Purpose:**
    - Generate high-fidelity AI videos with ultra-realistic digital avatars.
    - Clone your own voice and translate it with lip-sync for global audiences.
    - Produce studio-quality course content through an intuitive web dashboard.
- **Quick Start Steps:**
    - Visit https://heygen.com and create an account.
    - Select an avatar or upload a short video to create your digital twin.
    - Type your script; for voice cloning, record a sample.
    - Choose the output language (auto lip-sync).
    - Render and download the video or share via link.
- **Screenshot Walkthrough:** Show the avatar selection screen, then the script input with the “Voice Clone” toggle. Display a side-by-side of the original English and translated Spanish video with perfect lip-sync.

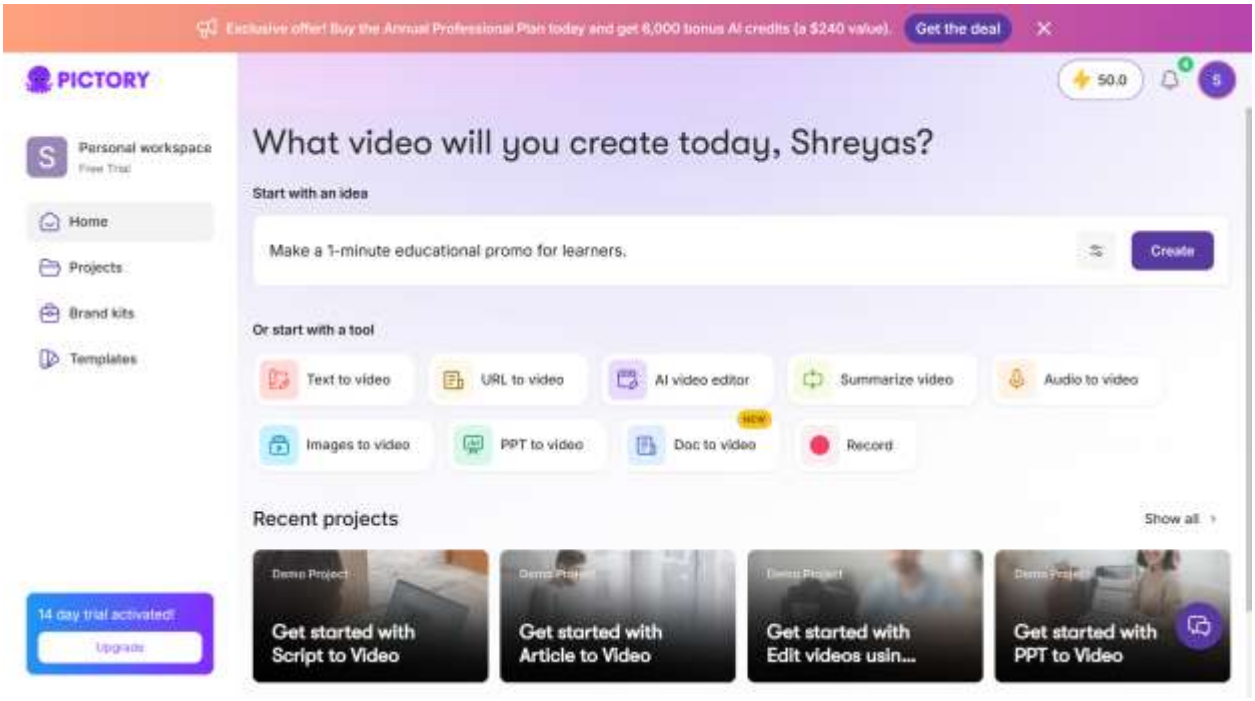


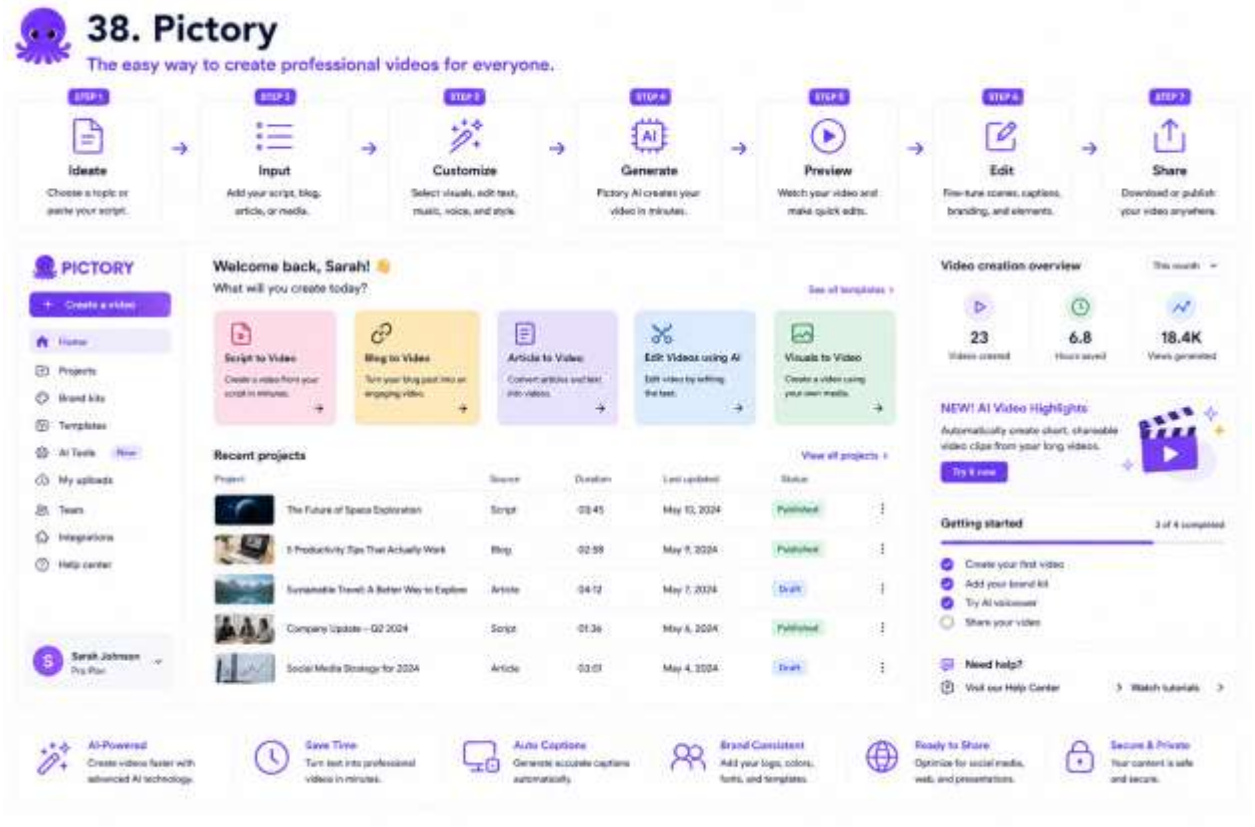


- **Key Advantages Over Competitors:**
  - Ultra-realistic digital avatars that are almost indistinguishable from video.
  - Voice cloning captures your tone and pacing for a personal touch.
  - Multilingual translation with lip-sync makes content accessible globally.
  - Intuitive timeline editor requires no video production background.
  - Consistent output quality for an entire semester's video library.
- **Pricing:** Paid

38. Pictory

- **Website:** https://pictory.ai
- **Primary Purpose:**
  - Convert lecture transcripts and blog posts into short, engaging videos.
  - Automate the addition of relevant B-roll footage and captions.
  - Speed up content repurposing for course updates and social media.
- **Quick Start Steps:**
  - Sign up at https://pictory.ai and click **"New Video"**.
  - Paste your script or upload a video/audio file to transcribe.
  - Pictory automatically extracts highlights and matches B-roll from its library.
  - Customize the captions, branding, and music in the timeline.
  - Export the video in various resolutions.
- **Screenshot Walkthrough:** Show the script input box, then the automatic scene breakdown with B-roll suggestions. Highlight the caption editing panel and the final preview with animated text.

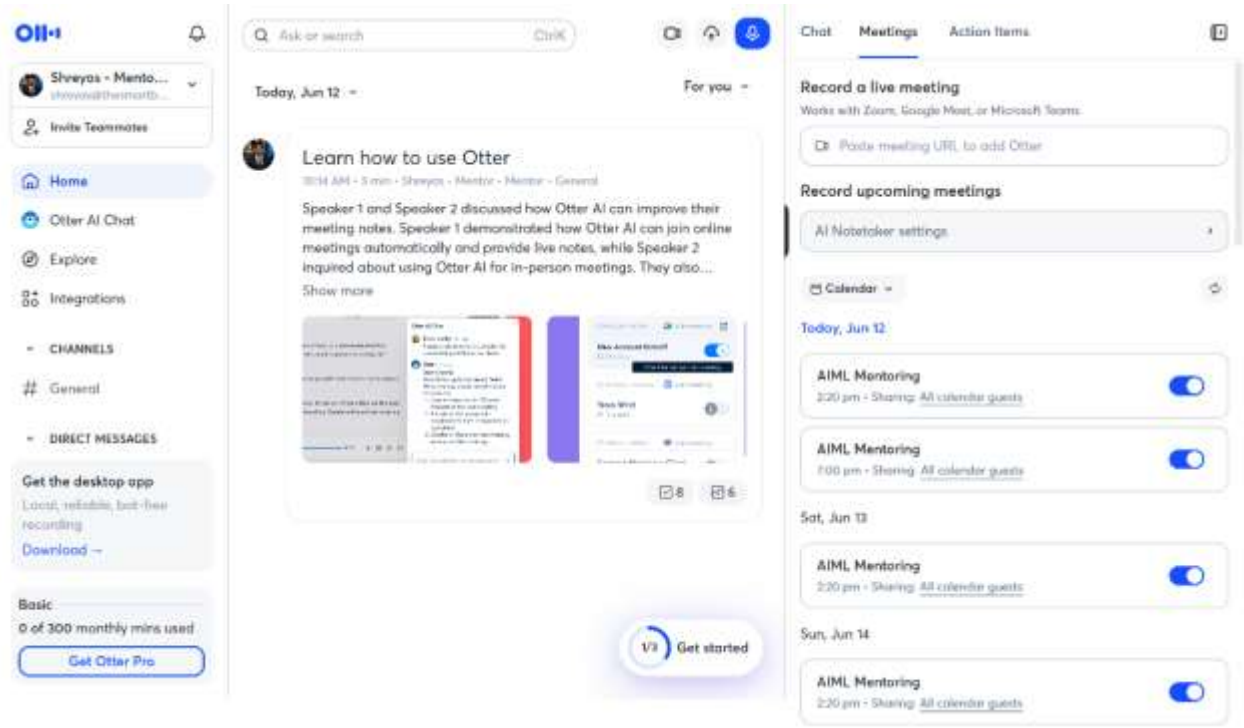


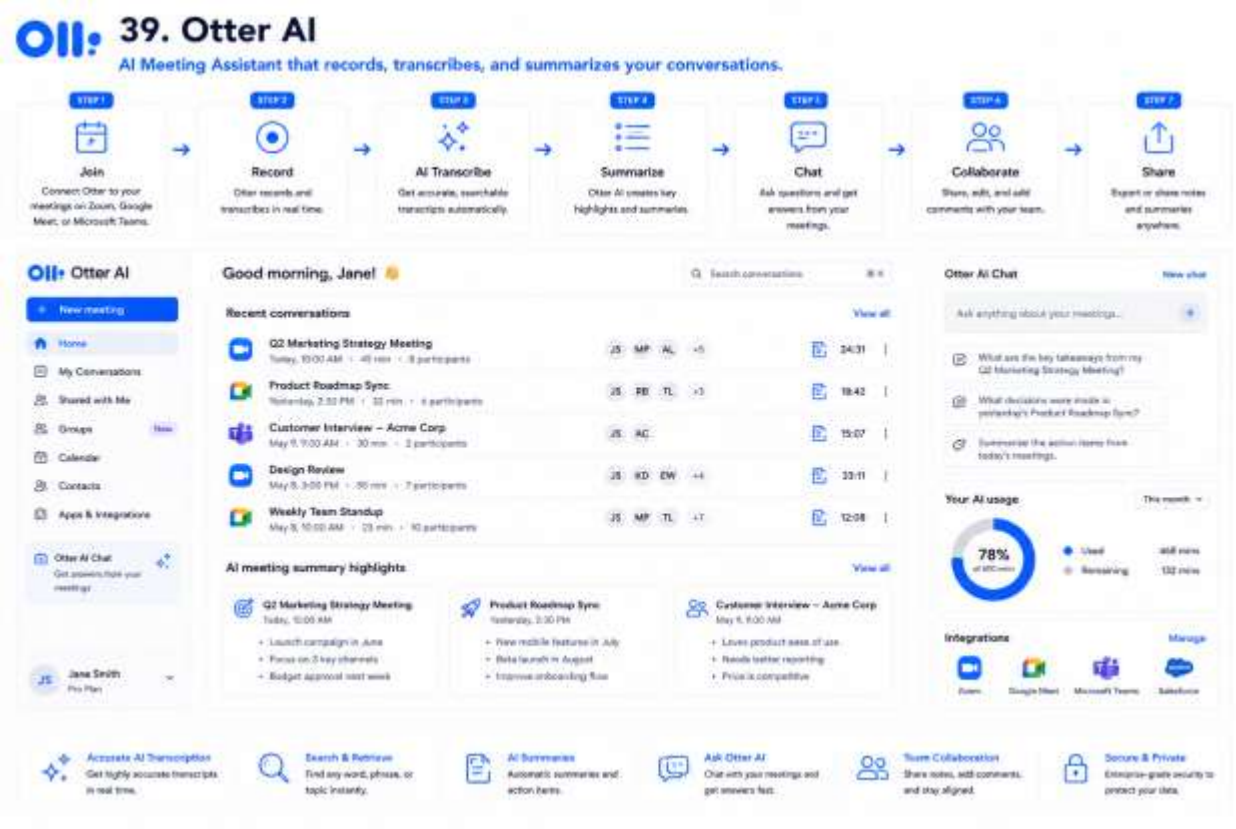


- **Key Advantages Over Competitors:**
  - Transforms a blog post or lecture transcript into a short video.
  - AI automatically finds and inserts relevant B-roll footage.
  - Built-in captioning with high accuracy boosts accessibility.
  - Quick turnaround — ideal for weekly summary or announcement videos.
  - Simple editing workspace that focuses on the message, not the tech.
- **Pricing:** Paid

39. Otter AI

- **Website:** https://otter.ai
- **Primary Purpose:**
  - Transcribe lectures, meetings, and panel discussions in real time.
  - Generate searchable, shareable notes with speaker identification.
  - Provide an accessibility-friendly record that students can review anytime.
- **Quick Start Steps:**
  - Go to https://otter.ai and sign in (free tier available).
  - Click **"Record"** to start live transcription (or upload an audio/video file).
  - The transcript appears in real time with speaker labels.
  - Highlight, comment, or add images to the transcript.
  - Share the link with students or export as TXT, DOCX, or SRT.
- **Screenshot Walkthrough:** Show the live recording screen with waveform and scrolling transcript. Highlight a tagged speaker name and the highlighted text. Show the share button and the summary panel with keywords.

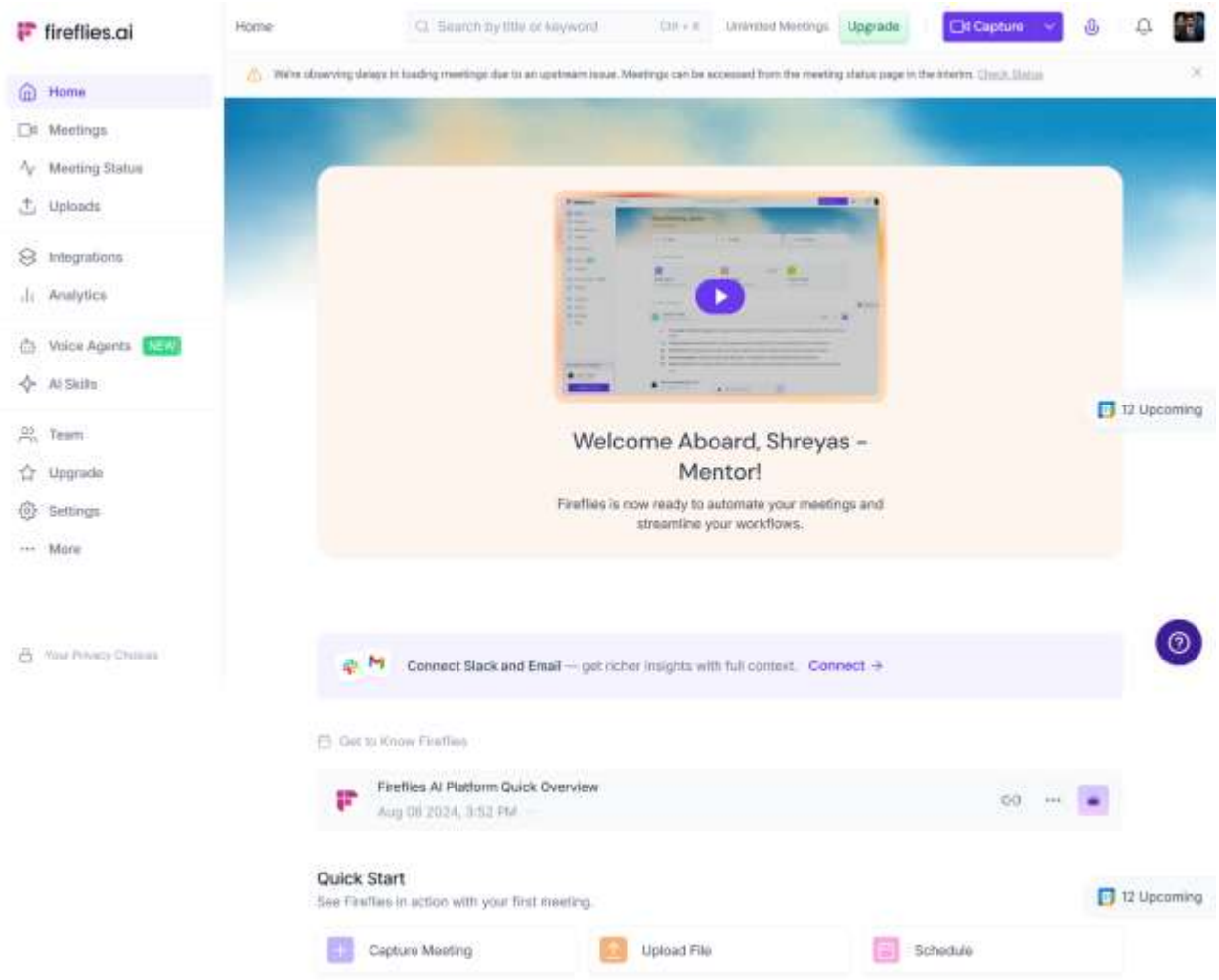


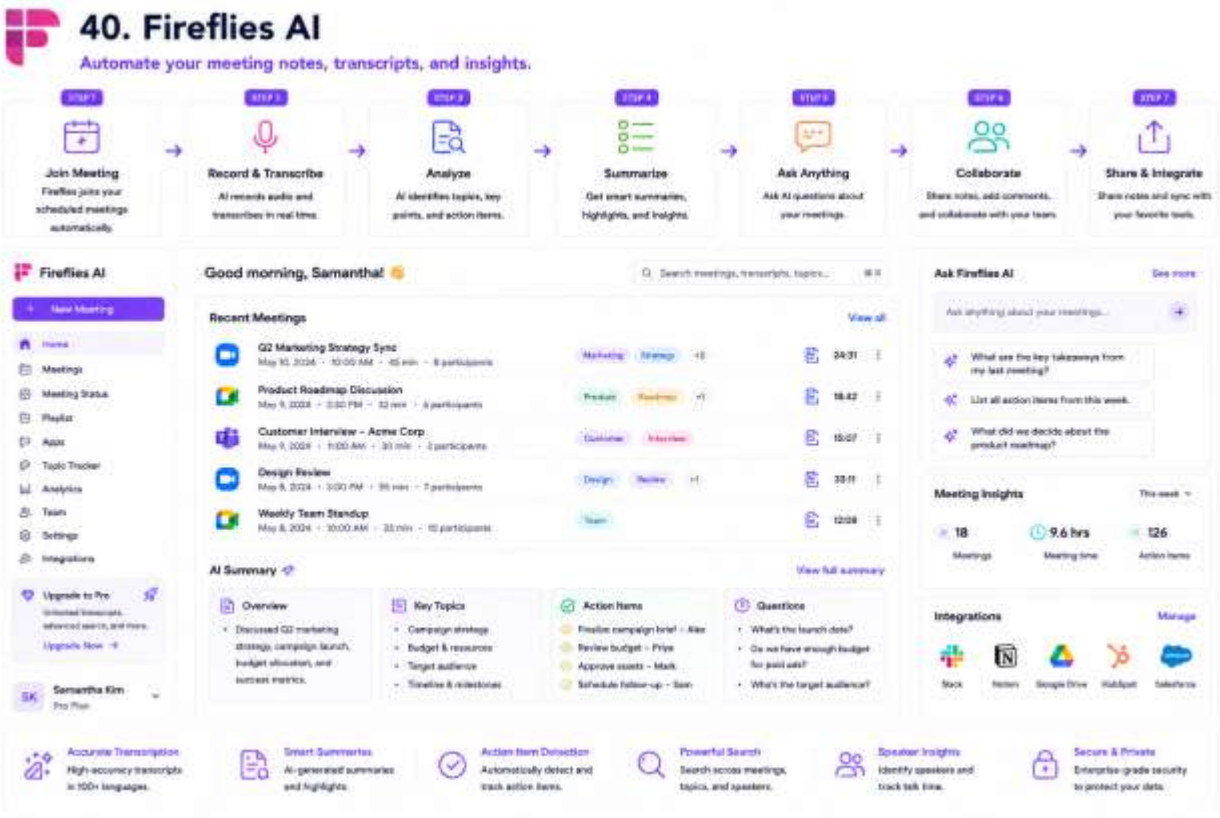


- **Key Advantages Over Competitors:**
  - Real-time transcription that captures every word of your lecture.
  - Speaker identification labels who said what in panel discussions.
  - Searchable notes let students jump to the exact minute a topic was discussed.
  - Shareable, editable transcripts for collaborative note-taking.
  - Integrates with Zoom, Teams, and Google Meet automatically.
- **Pricing:** Free + Paid

40. Fireflies AI

- **Website:** https://fireflies.ai
- **Primary Purpose:**
  - Act as an automated meeting assistant for faculty committees and research groups.
  - Capture summaries, action items, and decisions without manual note-taking.
  - Make all past conversations searchable and integrate with project management tools.
- **Quick Start Steps:**
  - Sign up at https://fireflies.ai and connect your calendar (Google/Outlook).
  - Invite fred@fireflies.ai to your meetings, or enable auto-join.
  - After the meeting, Fireflies sends a summary with transcript, action items, and highlights.
  - Log in to the dashboard to search across all past meetings.
  - Push action items to Slack, Notion, or Asana via integrations.
- **Screenshot Walkthrough:** Show the meeting summary email with action items extracted. Then show the dashboard with a transcript and clickable action items. Highlight the integration buttons.


fireflies.ai
Home
Search by title or keyword
Unlimited Meetings
Upgrade
Capture
Meetings
Meeting Status
Uploads
Integrations
Analytics
Voice Agents
NEW
AI Skills
Team
Upgrade
Settings
More
Welcome Aboard, Shreyas - Mentor!
Fireflies is now ready to automate your meetings and streamline your workflows.
12 Upcoming
Connect Slack and Email — get richer insights with full context. Connect →
Get to Know Fireflies
Fireflies AI Platform Quick Overview
Quick Start
See Fireflies in action with your first meeting.
Capture Meeting
Upload File
Schedule

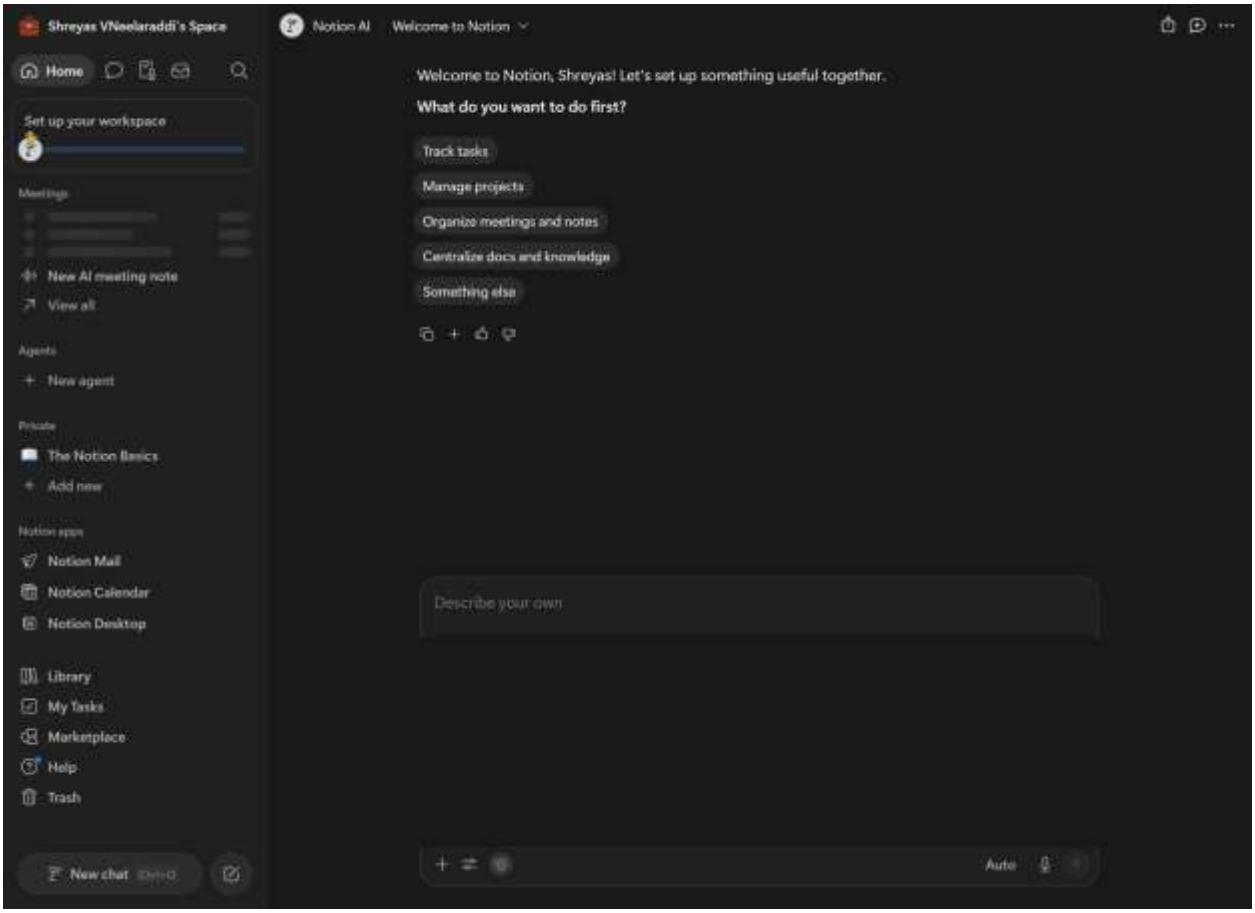


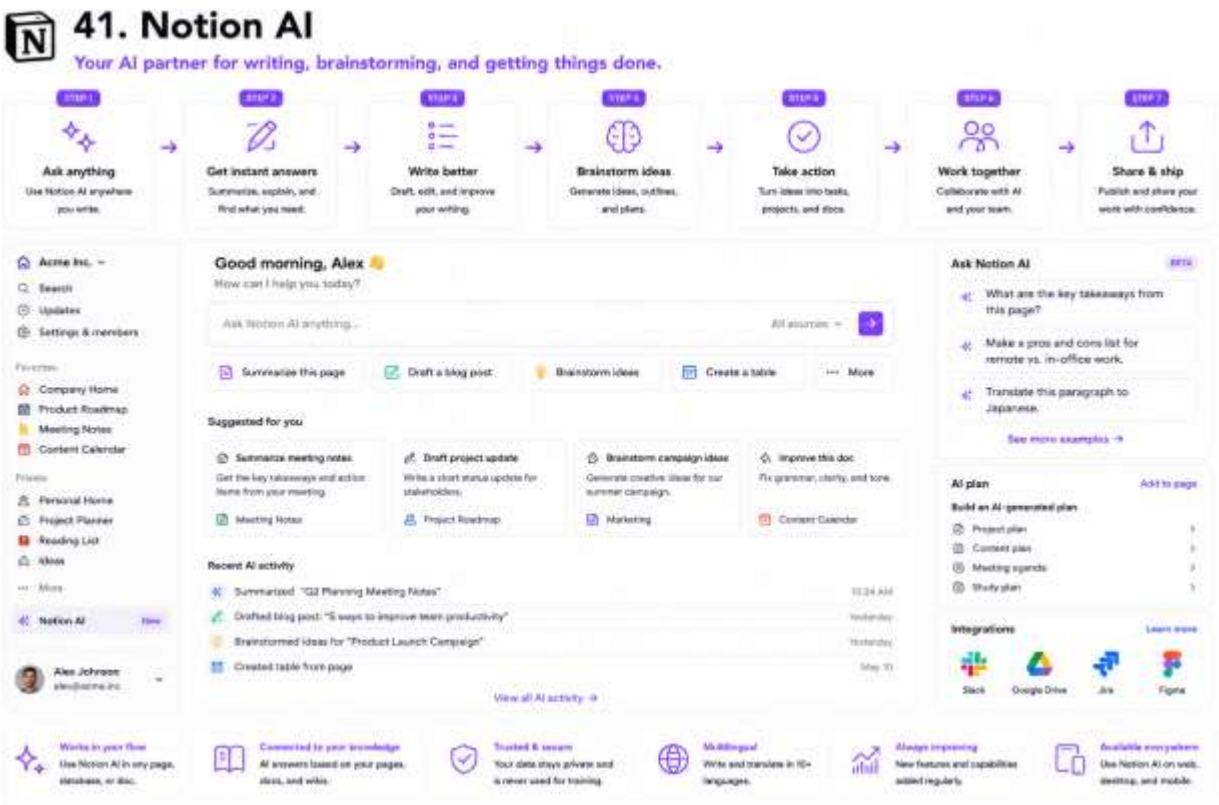
- **Key Advantages Over Competitors:**
    - Joins your faculty meeting automatically and delivers a summary.
    - Action items and decisions extracted and sent to attendees.
    - Search across all past meetings for a keyword or topic.
    - Connects with Slack, Notion, and project management tools.
    - Saves hours of manual minute-taking for departmental committees.
- **Pricing:** Freemium

SECTION 9: PRODUCTIVITY, KNOWLEDGE GRAPHING, & CREATIVE MEDIA

41. Notion AI

- **Website:** https://notion.so
- **Primary Purpose:**
  - Serve as an all-in-one institutional knowledge and project management hub.
  - Combine syllabi, research notes, lab protocols, and admin docs in one place.
  - Use embedded AI to draft, summarize, and refactor text inside the workspace.
- **Quick Start Steps:**
  - Go to https://notion.so and sign up (free education plan).
  - Create a page and use the **"Ask AI"** block or press space for AI assist.
  - Tell the AI what you need (e.g., "Draft a meeting agenda," "Summarize these notes").
  - Build databases for research articles, students, or tasks with templates.
  - Share the workspace with your lab or teaching team.
- **Screenshot Walkthrough:** Show a Notion page with a database of research papers and an AI block generating a summary. Highlight the slash command menu and the "Share" button.

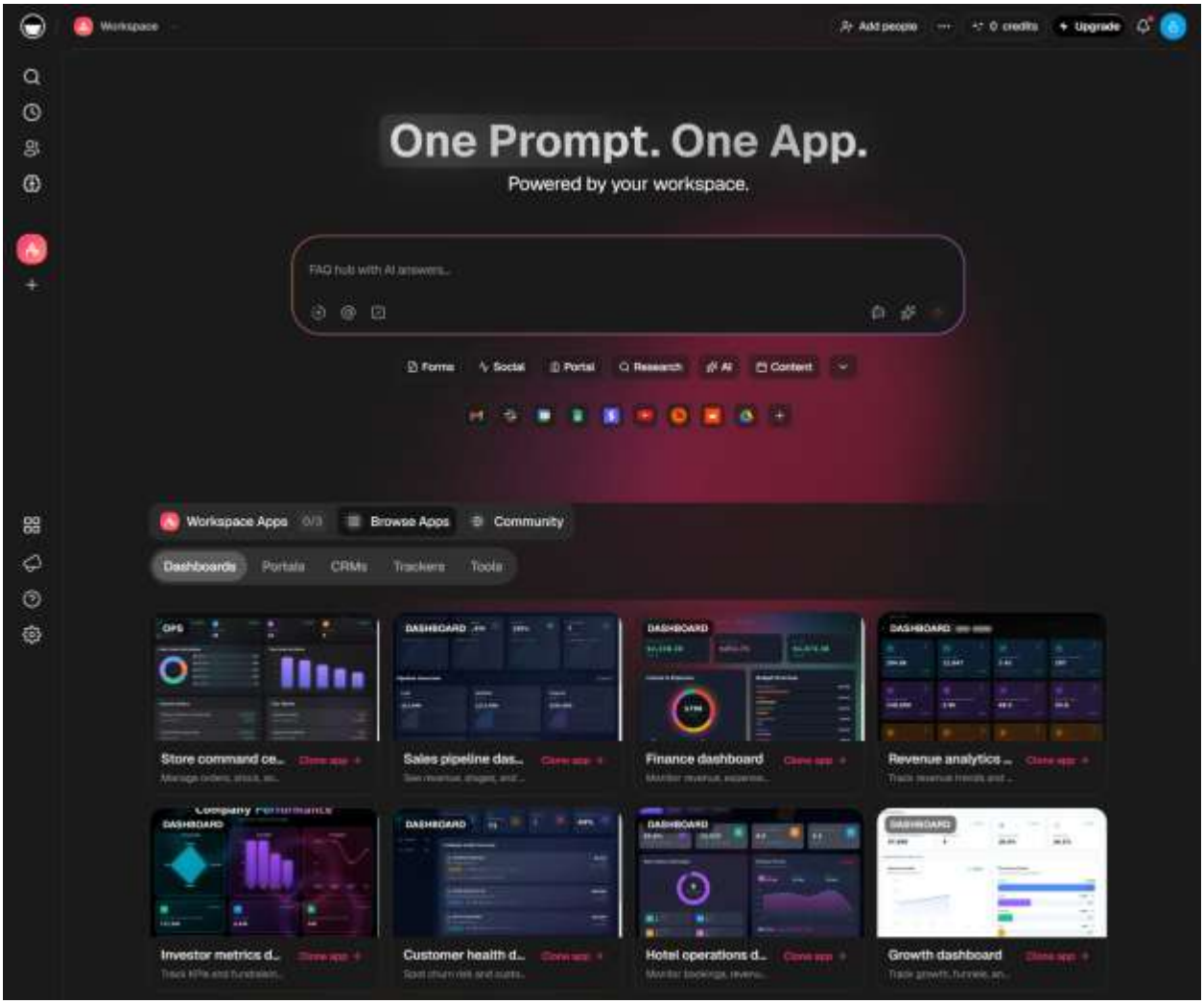


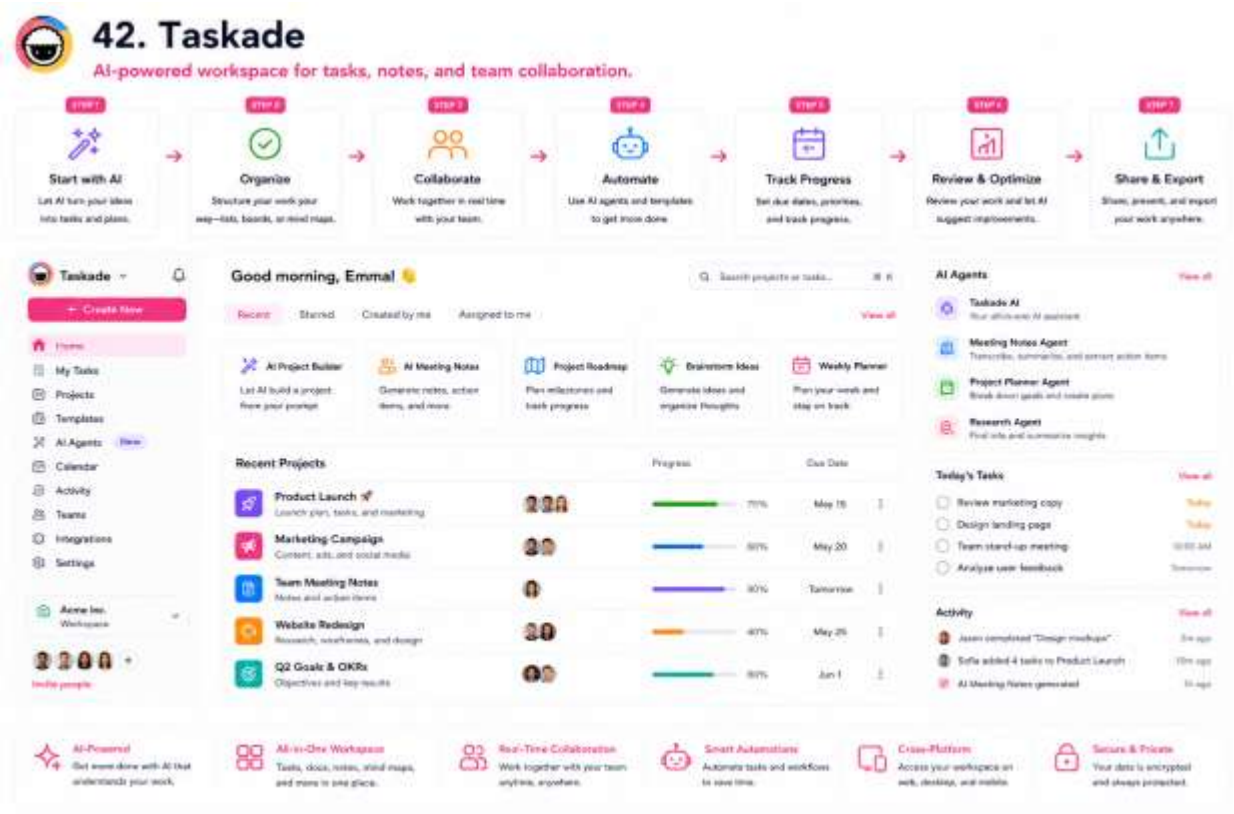


- **Key Advantages Over Competitors:**
  - Single workspace for syllabi, research notes, lab protocols, and admin docs.
  - AI inside the editor can draft, summarize, or translate on the spot.
  - Databases and linked pages organize a complex research project elegantly.
  - Teamspaces let a lab group share protocols and literature notes.
  - Flexible layout — build a wiki, a project tracker, or a personal dashboard.
- **Pricing:** Free + Paid

42. Taskade

- **Website:** https://taskade.com
- **Primary Purpose:**
  - Combine task management, mind maps, and AI agents into one platform.
  - Automate research workflows like daily literature alerts and progress tracking.
  - Facilitate real-time collaboration for remote co-authors and lab teams.
- **Quick Start Steps:**
  - Visit https://taskade.com and create a workspace.
  - Choose a view: List, Board, Mind Map, or Action.
  - Use the **AI Agent** to set up automated workflows (e.g., “Summarize new papers from this RSS feed”).
  - Assign tasks to team members and chat inside the project.
  - Track progress with built-in time tracking and Gantt charts.
- **Screenshot Walkthrough:** Show the mind map view with AI-generated branches, then the board view with an AI agent’s automated task creation. Highlight the chat and video call integration.

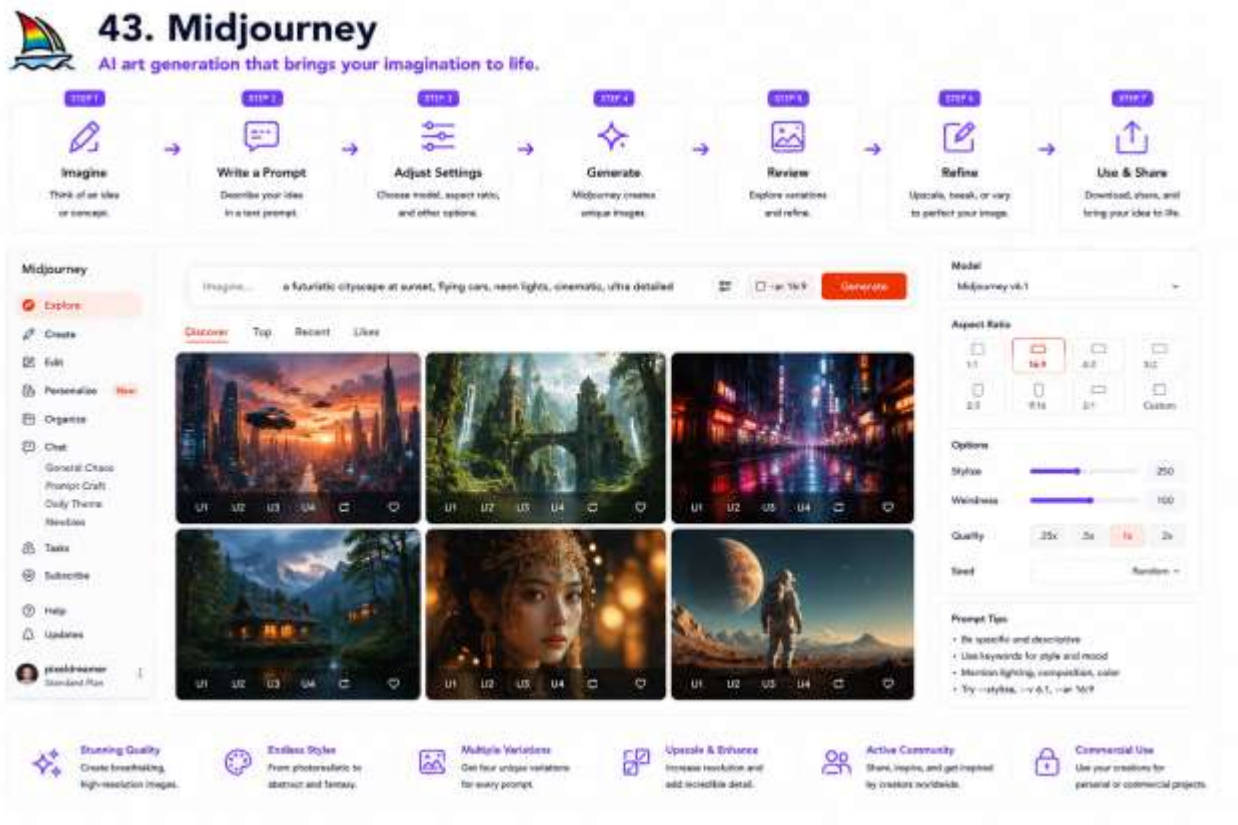

Workspace
Add people
0 credits
Upgrade
One Prompt. One App.
Powered by your workspace.
FAQ hub with AI answers...
Forms
Social
Portal
Research
AI
Content
Workspace Apps 0/3
Browse Apps
Community
Dashboards
Portals
CRMs
Trackers
Tools
Store command ce...
Sales pipeline das...
Finance dashboard
Revenue analytics ...
Investor metrics d...
Customer health d...
Hotel operations d...
Growth dashboard



- **Key Advantages Over Competitors:**
  - AI agents can automate repetitive research workflows (e.g., daily lit alerts).
  - Combines task boards, mind maps, and document editing in one tool.
  - Real-time collaboration with remote co-authors or lab members.
  - Template gallery covers grant timelines, course planning, and sabbatical projects.
  - Automation reduces administrative follow-ups and status-check emails.
- **Pricing:** Freemium

43. Midjourney

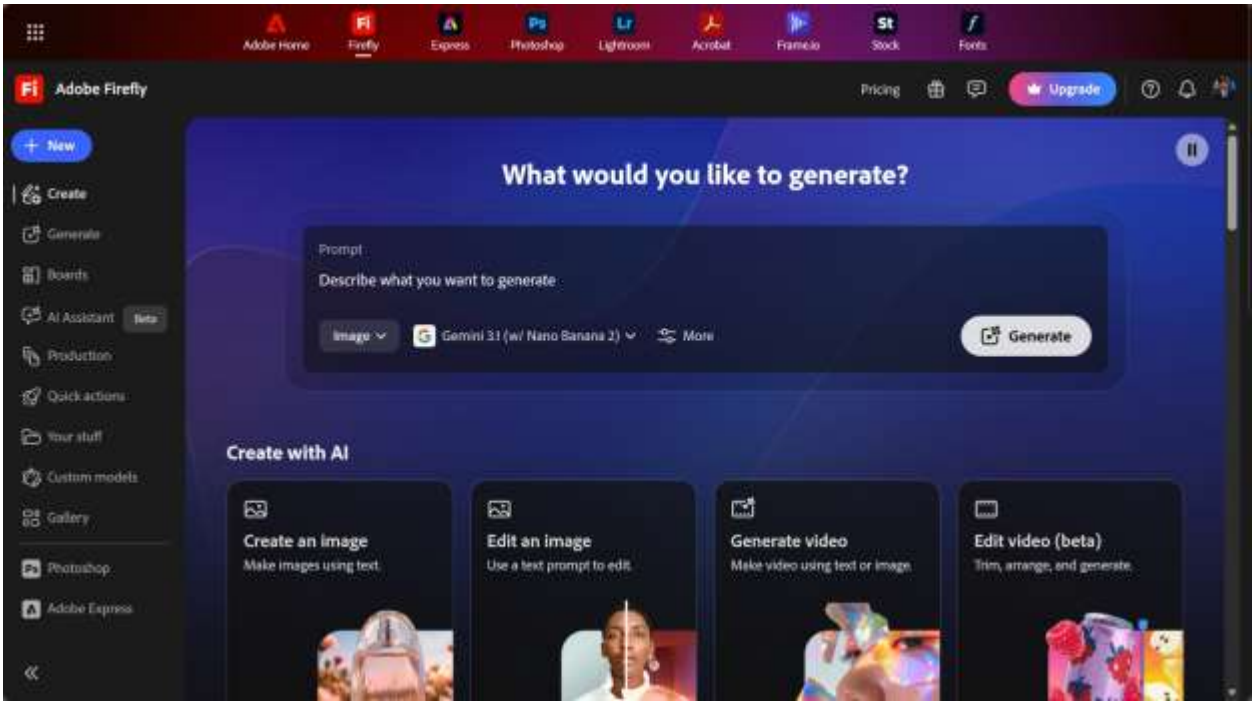
- **Website:** https://midjourney.com
- **Primary Purpose:**
  - Generate museum-grade, high-resolution creative images from text prompts.
  - Illustrate abstract concepts, create book covers, or spark class discussions.
  - Explore artistic styles and fine-tune outputs with granular control.
- **Quick Start Steps:**
  - Go to https://midjourney.com and join the Discord (or use the web app if available).
  - Type `/imagine` followed by your prompt (e.g., “a Renaissance painting of a neuron”).
  - Midjourney generates four image variations; click U1-U4 to upscale or V1-V4 to vary.
  - Refine with parameters (e.g., `--ar 16:9` for widescreen, `--style raw` for realism).
  - Download the final image.
- **Screenshot Walkthrough:** Show the Discord interface with the `/imagine` command and the grid of four initial images. Then show the upscaled image and the variation options. Highlight the parameter tags.

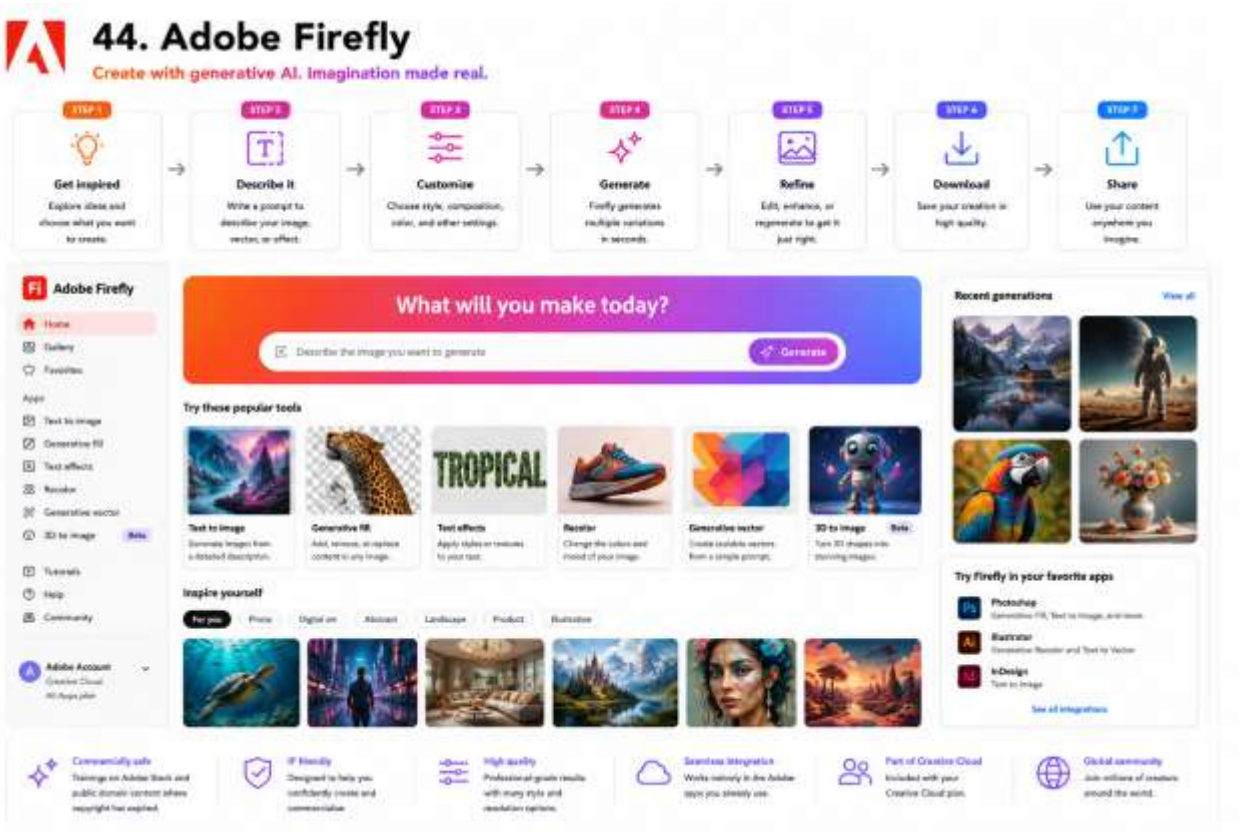


- **Key Advantages Over Competitors:**
  - Produces the most visually striking, high-resolution AI images available.
  - Ideal for creating conceptual art, book covers, and discussion-prompt visuals.
  - Style controls let you steer output from photorealistic to painterly.
  - Active community shares prompts that can jumpstart your own ideas.
  - Great for illustrating abstract concepts that lack stock photography.
- **Pricing:** Paid

44. Adobe Firefly

- **Website:** https://firefly.adobe.com
- **Primary Purpose:**
  - Provide commercially safe, legally compliant generative image creation.
  - Integrate deeply with Adobe Creative Cloud for professional editing.
  - Speed up the design of diagrams, infographics, and course visuals.
- **Quick Start Steps:**
  - Go to https://firefly.adobe.com and sign in with Adobe ID (free tier).
  - Choose a feature: Text to Image, Generative Fill, Text Effects, etc.
  - Enter a descriptive prompt and adjust style, color, composition settings.
  - Click **"Generate"** – four options appear; select and refine.
  - Open in Photoshop or Express for further editing.
- **Screenshot Walkthrough:** Show the Firefly web interface with prompt box and style selectors. Then show the four generated images. Highlight the "Open in Photoshop" button and the Generative Fill example on a photo.



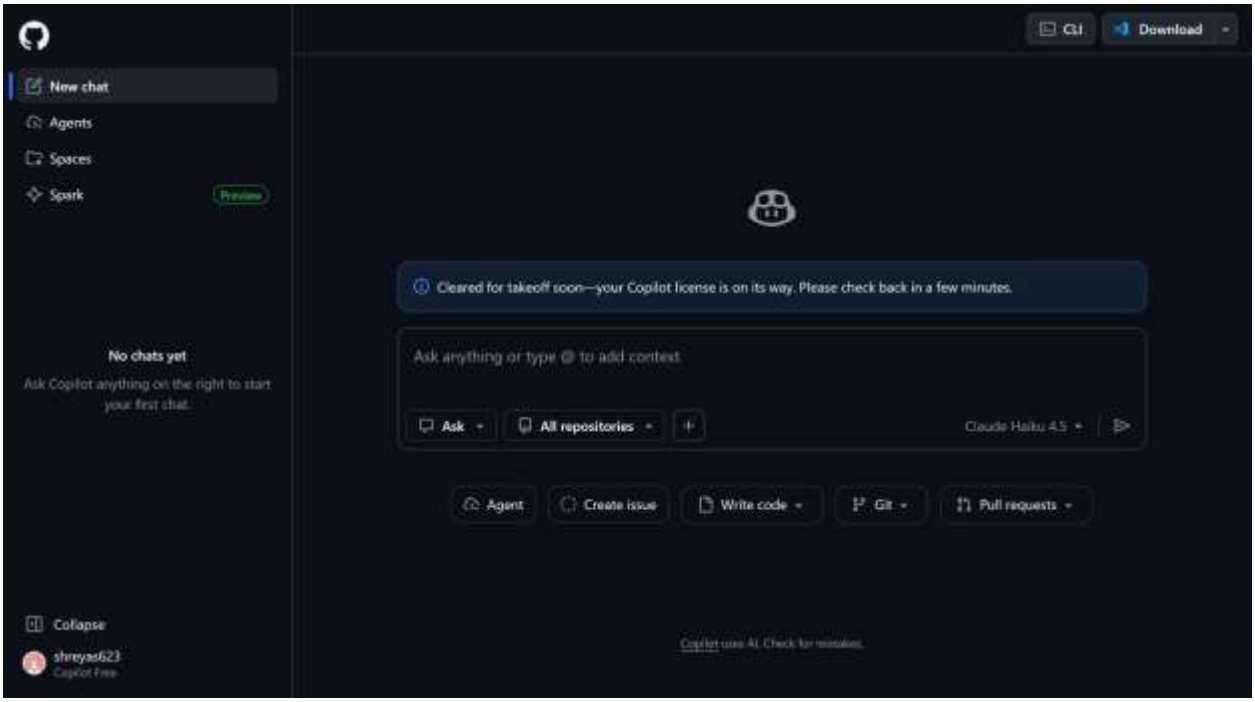


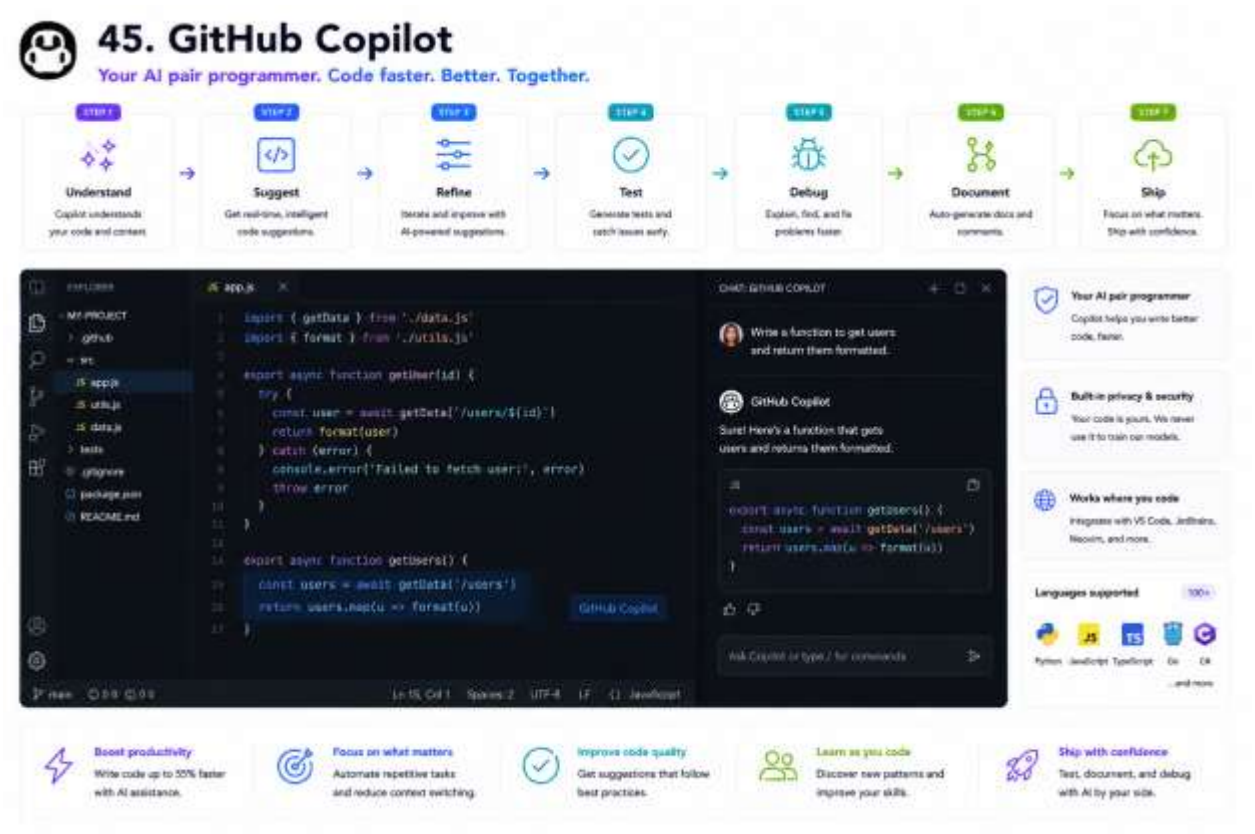
- **Key Advantages Over Competitors:**
  - Trained on licensed and public-domain content — commercially safe.
  - Integrates with Photoshop, Illustrator, and Express for precise editing.
  - Generative fill removes distractions or expands an image seamlessly.
  - Text effects and vector recoloring speed up diagram creation.
  - Adobe's reliability ensures long-term support and compliance.
- **Pricing:** Free + Paid

SECTION 10: CODING ASSISTANCE & HARD STEM MATHEMATICS

45. GitHub Copilot

- **Website:** https://github.com/features/copilot
- **Primary Purpose:**
  - Autocomplete code in Python, R, MATLAB, and other academic languages.
  - Explain, debug, and refactor scripts directly within the coding environment.
  - Accelerate data analysis, simulation, and model development for research.
- **Quick Start Steps:**
  - Install the Copilot extension in VS Code or JetBrains IDEs.
  - Sign in with your GitHub account (free for verified educators/students).
  - Start typing a comment describing what you want (e.g., `# load CSV and plot histogram`).
  - Copilot suggests code in grey; press **Tab** to accept.
  - Use the **Copilot Chat** panel (Ctrl+I) to ask questions or refactor.
- **Screenshot Walkthrough:** Show the VS Code editor with a grey suggestion appearing. Then show the Chat panel with a natural language request and the generated code. Highlight the “Accept” and “Discard” shortcuts.

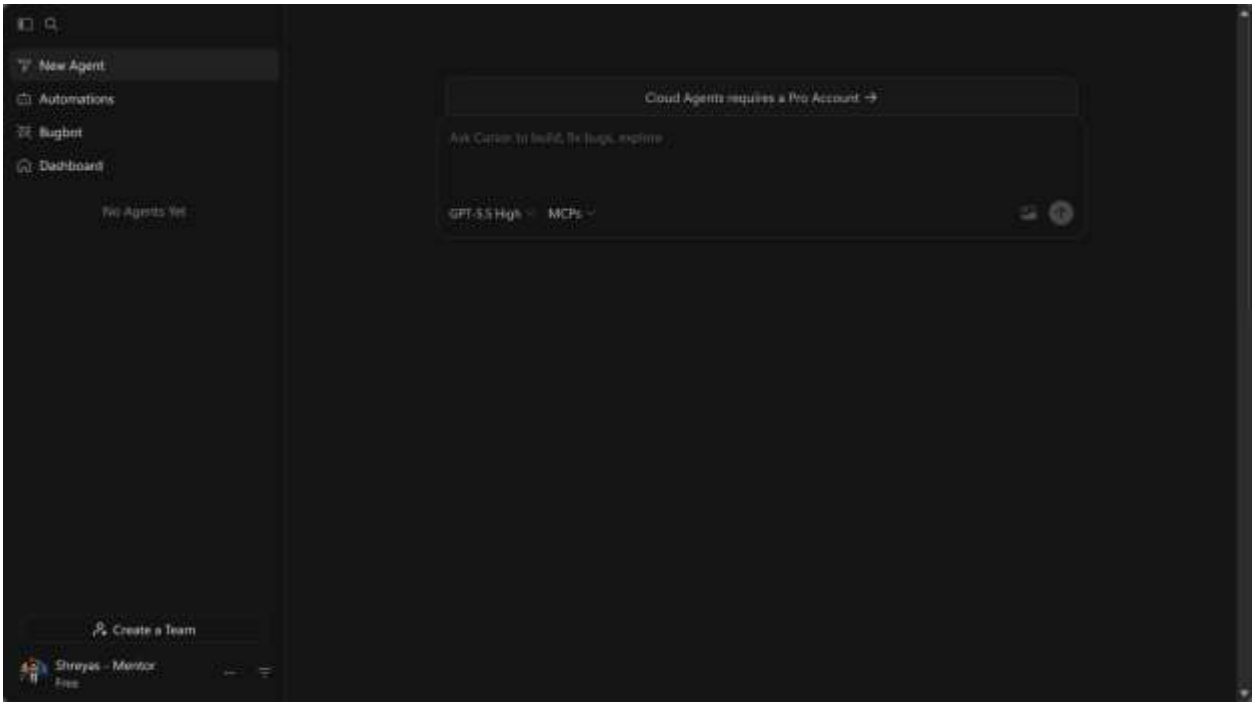


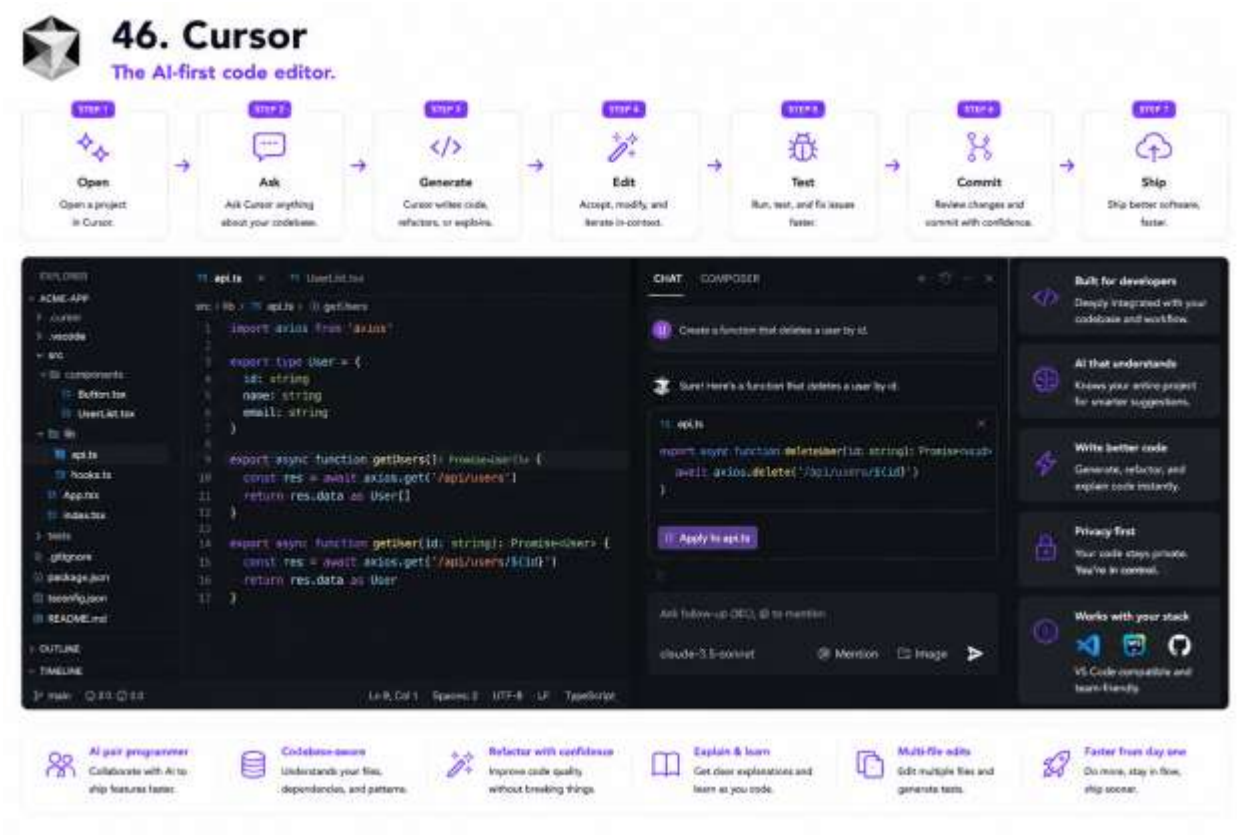


- **Key Advantages Over Competitors:**
  - Autocompletes entire functions in Python, R, MATLAB, and more.
  - Works inside VS Code, Jupyter, and other common academic coding environments.
  - Context-aware suggestions speed up data analysis scripts dramatically.
  - Students learn coding best practices by seeing professional patterns.
  - Copilot Chat explains code, finds bugs, and suggests refactors.
- **Pricing:** Paid

46. Cursor

- **Website:** https://cursor.com
- **Primary Purpose:**
  - Provide an AI-first code editor with full codebase awareness.
  - Modify multiple files through conversational commands.
  - Streamline refactoring and development of research software projects.
- **Quick Start Steps:**
  - Download and install Cursor from https://cursor.com.
  - Open your project folder – Cursor indexes all files.
  - Press **Ctrl+K** to open the AI chat and describe a change (e.g., “Add error handling to all API calls”).
  - Cursor shows a diff across files; accept or reject each change.
  - Use inline editing with **Ctrl+L** to modify selected code with a prompt.
- **Screenshot Walkthrough:** Show the Cursor editor with the AI chat panel on the right, a multi-file diff in the center, and the inline edit pop-up. Highlight the “Apply” and “Reject” buttons.

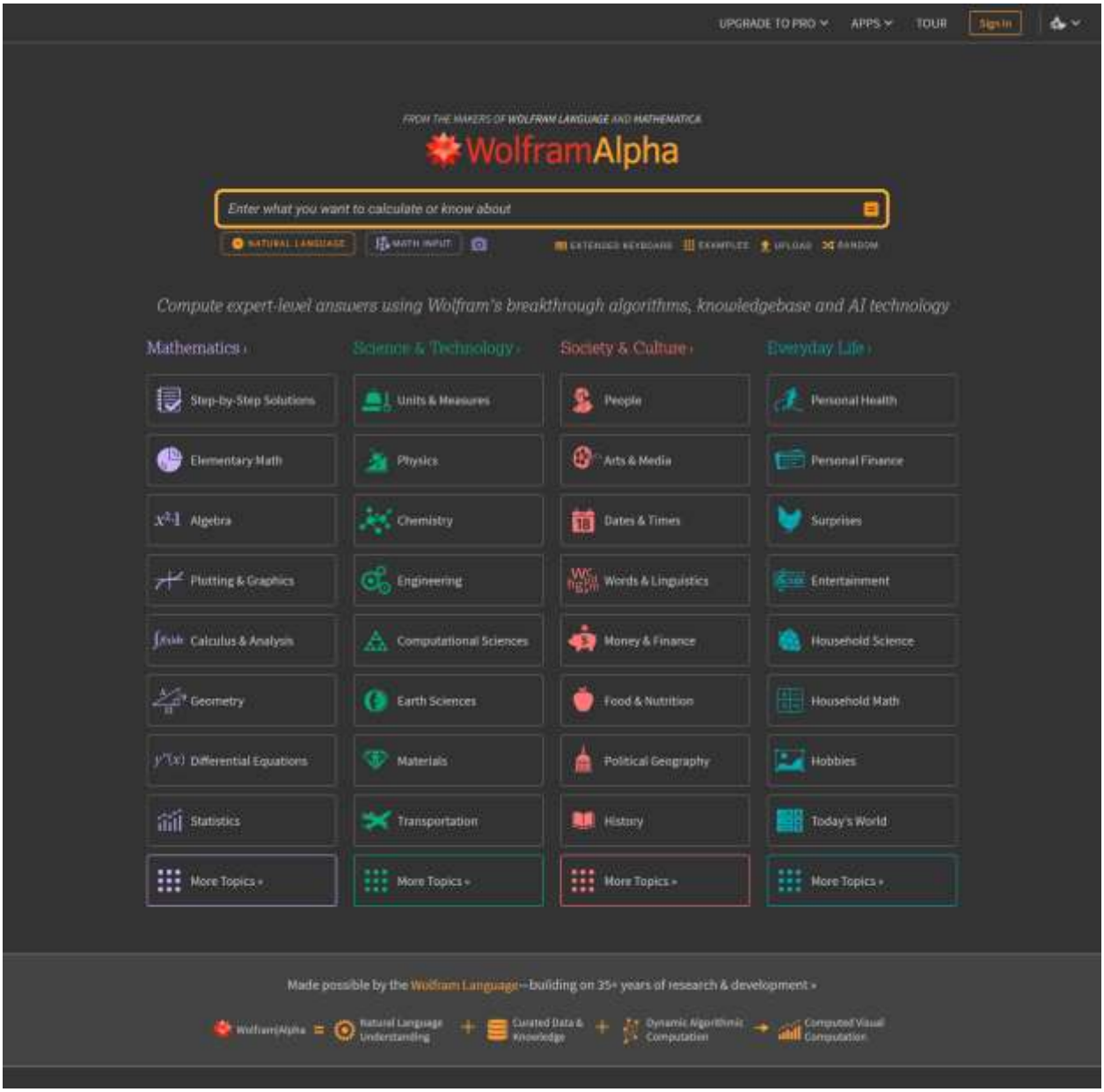




- **Key Advantages Over Competitors:**
  - Understands your entire codebase, not just the open file.
  - In-editor AI chat can modify multiple files with a single command.
  - Refactoring a research codebase becomes a guided, fast process.
  - Great for computational researchers who build models or simulations.
  - Rapid code generation and debugging cuts development cycles significantly.
- **Pricing:** Freemium

47. Wolfram Alpha

- **Website:** https://wolframalpha.com
- **Primary Purpose:**
  - Compute exact answers to hard math, science, and engineering queries.
  - Deliver step-by-step symbolic solutions without hallucination risk.
  - Support advanced STEM problem-solving and verification.
- **Quick Start Steps:**
  - Go to https://wolframalpha.com.
  - Type a mathematical expression or natural language query (e.g., “integrate x^2 sin x” or “solve pH of 0.1M acetic acid”).
  - Press **Enter** – the engine returns the exact result.
  - Click **“Step-by-step solution”** (may require a Pro subscription) to see the derivation.
  - Use the extended keyboard for special symbols.
- **Screenshot Walkthrough:** Show the input bar with a calculus problem and the resulting answer with a step-by-step expansion. Highlight the “Step-by-step” button and the formula display.

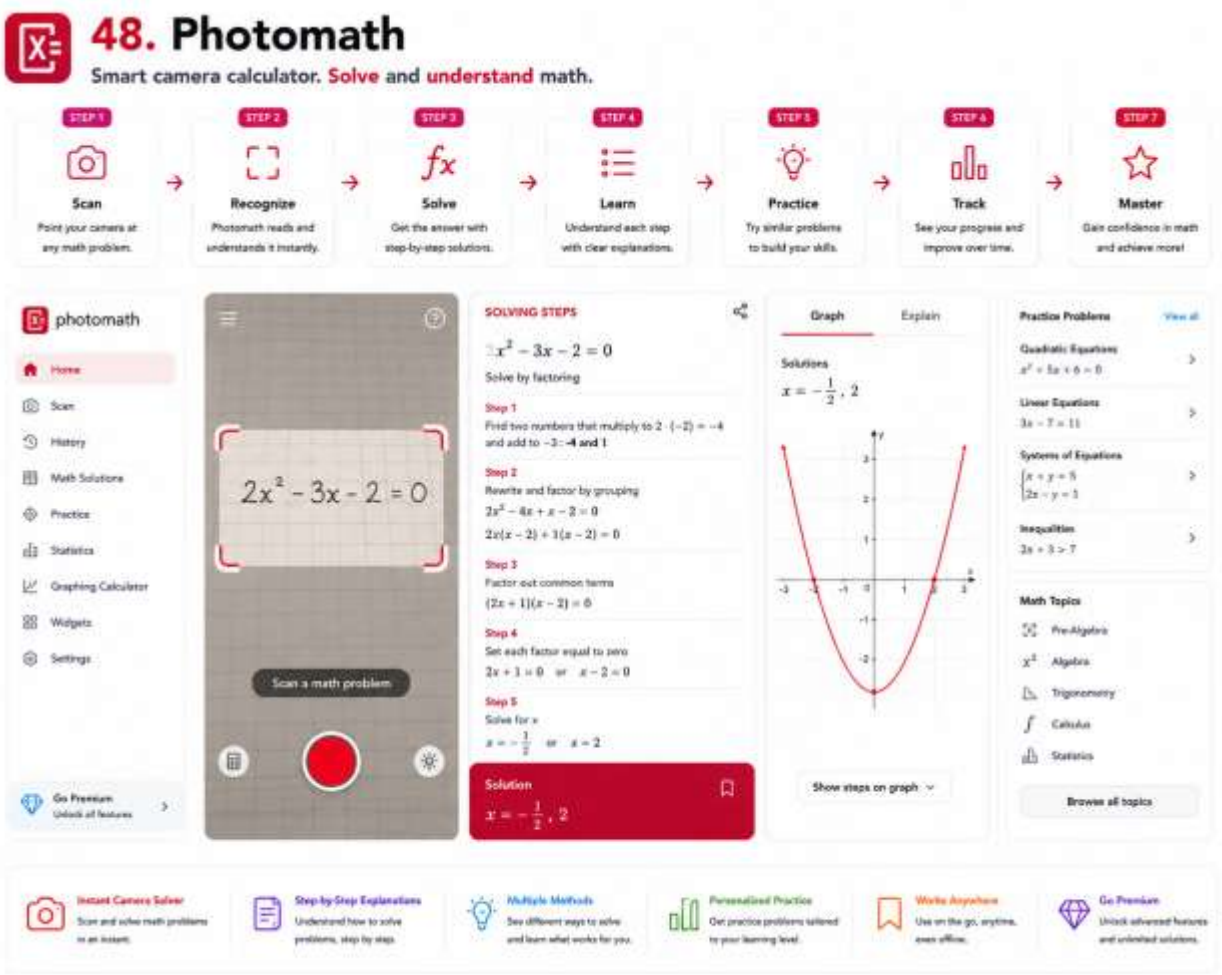

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Words & Linguistics
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Food & Nutrition
Political Geography
History
More Topics »
Everyday Life
Personal Health
Personal Finance
Surprises
Entertainment
Household Science
Household Math
Hobbies
Today's World
More Topics »
Made possible by the Wolfram Language—building on 35+ years of research & development »
WolframAlpha = Natural Language Understanding + Curated Data & Knowledge + Dynamic Algorithmic Computation → Computed Visual Computation



- **Key Advantages Over Competitors:**
  - Computes answers from a curated knowledge base, not language probability.
  - Returns exact symbolic solutions with step-by-step derivations.
  - Zero hallucination risk for math, chemistry, and physics calculations.
  - Handles advanced STEM queries that LLMs often get wrong.
  - Trusted by mathematicians and engineers for over a decade.
- **Pricing:** Free + Paid

48. Photomath

- **Website:** https://photomath.com
- **Primary Purpose:**
  - Solve math problems by simply pointing a phone camera at them.
  - Provide clear, step-by-step explanations suitable for gateway courses.
  - Lower the entry barrier for students struggling with foundational math.
- **Quick Start Steps:**
  - Download the Photomath app on iOS or Android.
  - Open the app and point your camera at a printed or handwritten equation.
  - The app scans and displays the solution instantly.
  - Tap on any step to see a detailed explanation and reasoning.
  - Use the built-in calculator for manual entry if scanning fails.
- **Screenshot Walkthrough:** Show the camera view scanning a handwritten equation, then the solution screen with numbered steps. Highlight the animated step expansion.

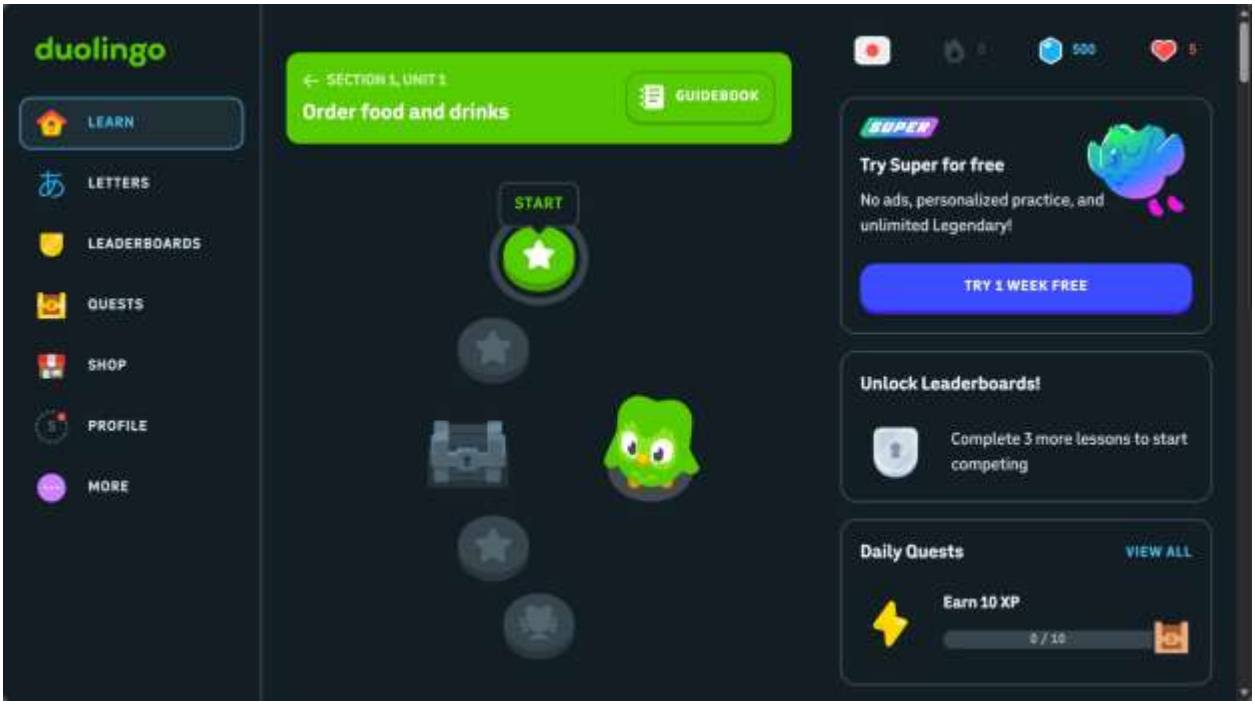


- **Key Advantages Over Competitors:**
  - Point a phone camera at a handwritten equation and get a solution.
  - Step-by-step explanations teach problem-solving, not just the answer.
  - Ideal for gateway math courses (algebra, precalculus) with high DFW rates.
  - Accessible anywhere — students can study on the bus or in a café.
  - Reduces the “I’m stuck” barrier that prevents students from starting homework.
- **Pricing:** Free + Paid

49. Duolingo Max

- **Website:** https://duolingo.com
- **Primary Purpose:**
  - Offer an AI-powered language tutor with conversational roleplay.
  - Provide grammar explanations tailored to individual mistakes.
  - Map curriculum to CEFR levels for easy integration into language courses.
- **Quick Start Steps:**
  - Download the Duolingo app and subscribe to Max (paid tier).
  - Select a language course; progress through lessons normally.
  - Encounter the **“Explain My Answer”** button after a mistake – tap for an AI breakdown.
  - Access the **“Roleplay”** feature from the practice tab to converse with an AI character.
  - Complete the conversation and receive feedback on fluency and accuracy.

- **Screenshot Walkthrough:** Show the “Explain My Answer” pop-up after an incorrect response. Then show the roleplay screen with an AI character and a dialogue. Highlight the CEFR alignment in the course description.

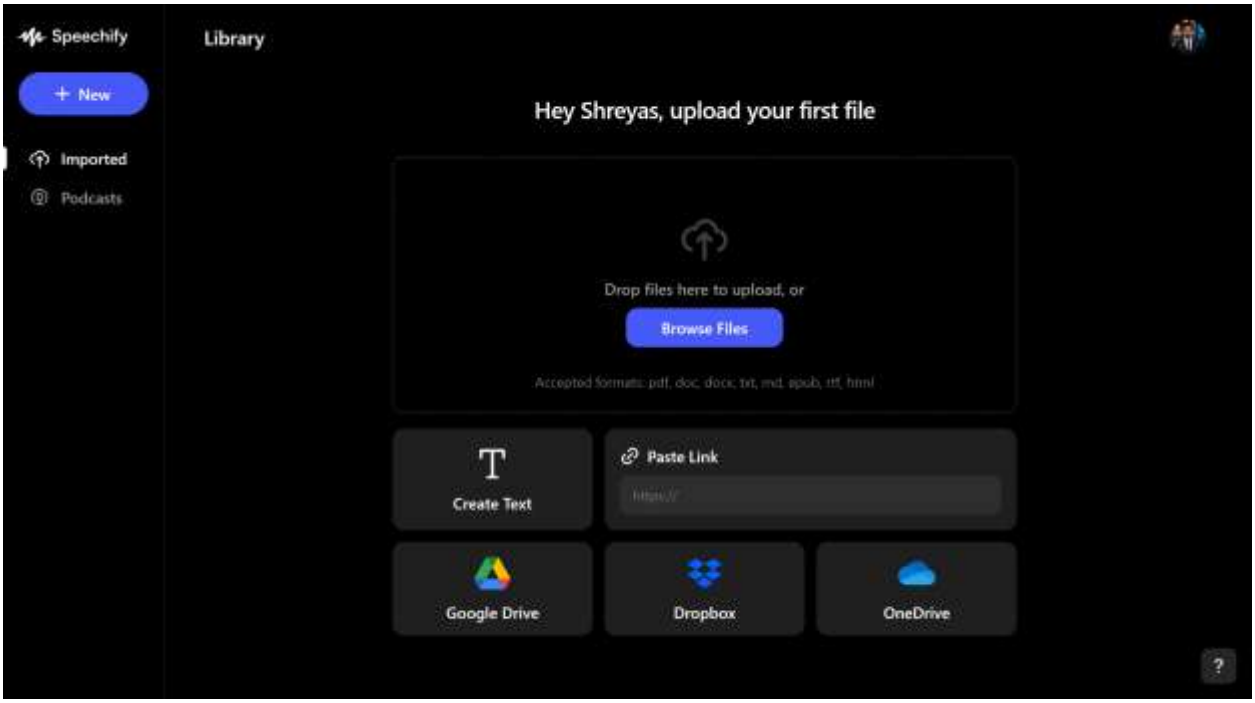


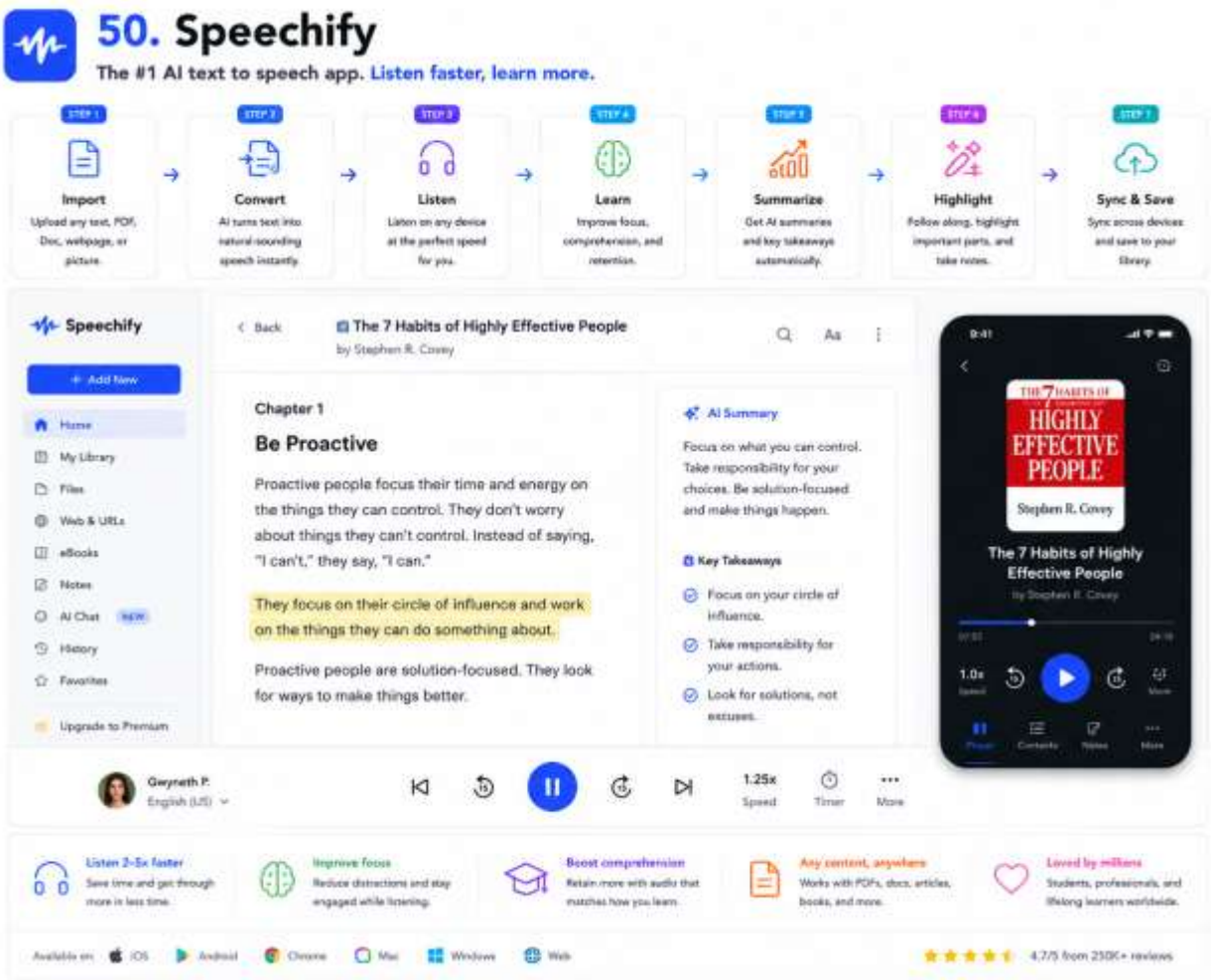


- **Key Advantages Over Competitors:**
    - Roleplay mode lets students converse with an AI in the target language.
    - “Explain My Answer” gives grammatical feedback tailored to the mistake.
    - Streaks and gamification keep students practicing daily.
    - Curriculum aligns with CEFR levels, making it easy to map to courses.
    - Mobile-first design fits into students’ existing phone habits.
- **Pricing:** Paid

50. Speechify

- **Website:** https://speechify.com
- **Primary Purpose:**
    - Turn any text-based material into natural, high-speed audio narration.
    - Support accessibility compliance (ADA, Section 508) for course content.
    - Enable busy faculty to consume readings while commuting or exercising.
- **Quick Start Steps:**
    - Install the Speechify app on your phone or the Chrome extension.
    - Import a PDF, article link, or paste text into the app.
    - Choose a voice (e.g., “Snoop Dogg,” “Gwyneth Paltrow”) and set the speed.
    - Press **Play** – the text is read aloud with word-by-word highlighting.
    - Share the audio file or let students use the link for their own listening.
- **Screenshot Walkthrough:** Show the app with a PDF open and the playback bar, the voice selection menu, and the speed slider (up to 4x). Highlight the word highlighting during playback.





- **Key Advantages Over Competitors:**
  - Converts any PDF, article, or email into natural-sounding audio.
  - Human-quality voices at up to 4x speed retain comprehension.
  - Meets ADA and Section 508 accessibility requirements for course materials.
  - Syncs across phone, tablet, and desktop — pick up where you left off.
  - Helps faculty absorb committee reading while commuting or exercising.
- **Pricing:** Free + Paid