

CYBERSECURITY IN THE AGE OF ARTIFICIAL INTELLIGENCE: SAFEGUARDING INDIA'S DIGITAL FRONTLINE



Deepfake Voice Scam

Attackers copy someone's voice (like your boss) using AI and call to ask for money or data.



AI Finds Software Bugs

Attackers use AI to find weaknesses in apps faster than humans.



Fake Videos (Deepfakes)

AI makes fake videos of leaders or staff saying false things.



Fake Social Media Posts

Hackers use AI to create new virus versions that avoid antivirus tools.



Smart Phishing Emails

AI writes realistic, personalized scam emails that look genuine.



AI Password Guessing

AI guesses passwords based on your online info (name, birthday, etc.).



AI-made Malware

Hackers use AI to create new virus versions that avoid antivirus tools.



AI-driven Ransomware

AI helps ransomware pick the most valuable files to lock and demand more money.



Operation Sindoor showed that while our brave defense personnel protected physical borders, cyberspace relied on the right tools and technology to counter AI-generated images and videos spreading misinformation.

Defending the truth required continuous innovation, smart solutions, and close collaboration to keep public perception grounded.

In today's world, wars are not only fought on land, air, and sea — but also in the cloud.



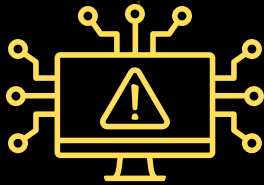
The New Threat Landscape

AI, DEEPFAKES, AND CYBER WARFARE - THE EMERGING FRONT



WORMGPT

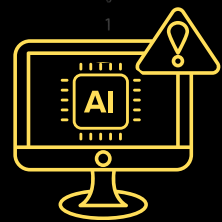
The dark twin of ChatGPT,
built to weaponize words
into cyberattacks.



Over **1.3 million cyber incidents** were reported to CERT-In in the last year



A **25% rise in attacks** on critical infrastructure and defence-linked systems



AI-assisted **phishing and impersonation attempts** have grown fivefold in 2024-25

Hackers evolve with AI — so must our defenses.

WHEN AI HELPS IN DEFENDING TOO

Threat Detection

How AI works: Uses machine learning models to analyze network traffic and system logs, learning what “normal” behavior looks like.



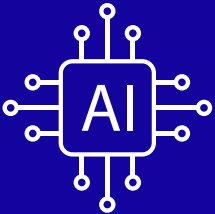
Phishing & Malware Identification

How AI works: Uses natural language processing (NLP) and pattern recognition to scan emails, URLs, and attachments for suspicious content.



Automated Incident Response

How AI works: Uses real-time event correlation and decision models to automatically respond to attacks.



User Behavior Analytics (UBA)

How AI works: Uses behavioral profiling and anomaly detection to track normal user actions and alert on deviations.



Predictive Defense

How AI works: Uses predictive modeling and threat intelligence analysis to anticipate attacks based on past incidents and global trends.

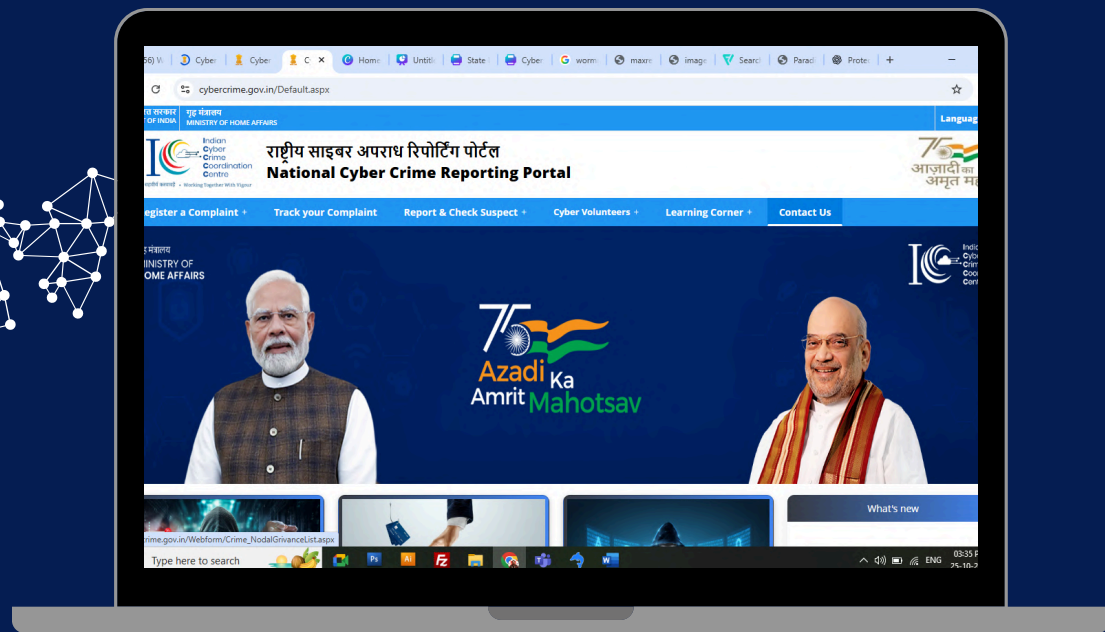


India's Response and the Way Forward

SECURING INDIA'S DIGITAL SOVEREIGNTY



<https://cybercrime.gov.in>



1930

Cyber Crime
Helpline

112

National police
helpline number

181

National women
helpline number



इलेक्ट्रॉनिकी एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND
INFORMATION TECHNOLOGY

सत्यमेव जयते

Stay Vigilant, Stay Secure