
## Government of India
## Ministry of Electronics and information Technology
## National Informatics Centre, Himachal Pradesh, Shimla
## Technical Presentations by NIC HP Officials held on 29-November-2025

The fortnightly Technical Talk session was held on **29 November 2025**. The session featured ten-minute Technical presentations by individual Officers of NIC, followed by a five-minute session highlighting the Technical News during this time period. The Technical Presentations of every individual were also evaluated by the NIC Staff on various parameters such as Content, Delivery Style, Usefulness of Topic, Time Constraint, Font & Style on the scale of 5 through the Hindi Bodh Mobile Application.

**The details of the presenters & rating are as below:**

| Sr. No. | Name | Designation | Topic | Rating (5.0) |
|---|---|---|---|---|
| 1. | Sh. Shailender Kaushal | Scientist-F | Network Mapper (NMAP) | 4.6 |
| 2. | Sh. Vinod Garg | Scientist-F | Technical News | 4.4 |
| 3. | Sh. Balwan Singh | Scientific D | Model Context Protocol (MCP) | 4.2 |
| 4. | Sh. C.L Kashyap | Scientific C | Federated Learning for Internet of Things | 4.2 |

In addition to the presentations, a quiz competition was organized related to technical content delivered. A total of **26** officials participated in the quiz, which was conducted on the Hindi Bodh Mobile App. The quiz featured **16** multiple-choice questions, all based on the technical presentations delivered by NIC officials.

**The result of the quiz competition is as below:**

| Position | Participant Name | Designation | Location |
|---|---|---|---|
| 1st | Sh. Mukesh Dhiman | Scientist D | NIC State Centre, Shimla |
| 2nd | Sh. C.L Kashyap | Scientist C | NIC High Court, Shimla |
| 3rd | Sh. Chetan Saini | Scientific Officer/Engineer-SB | NIC District Centre, Mandi |


*NIC HP officials attending the technical session*

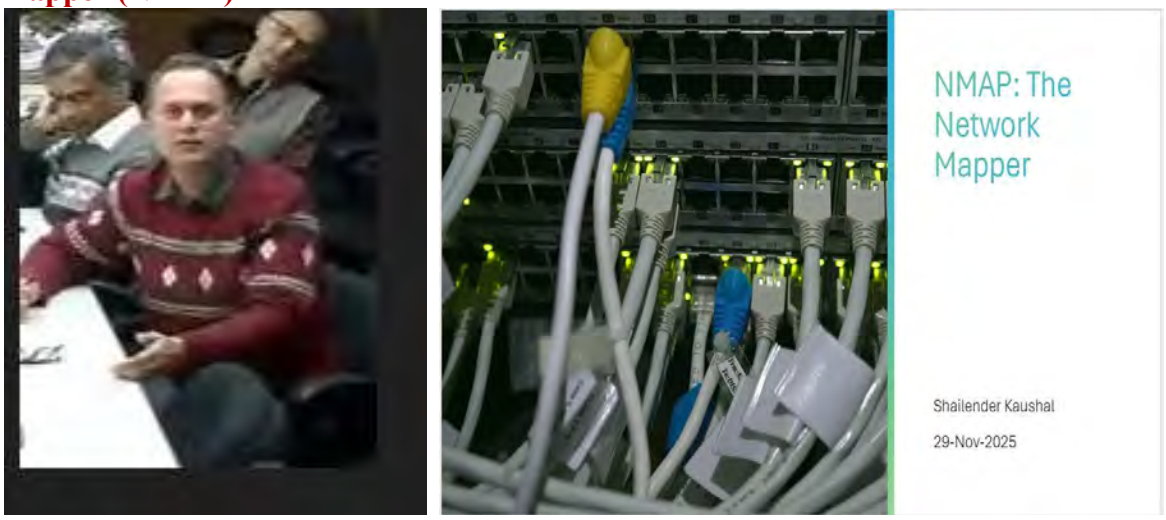
**The following officials were present during the technical talk held on 29-11-2025**

| Sr. No | Name of official | Designation | Centre (State/District) |
|---|---|---|---|
| 1. | Sh. Sandeep Sood | Scientist-G | NIC State Centre |
| 2. | Sh. Lalit Kapoor | Scientist-F | NIC State Centre |
| 3. | Sh. Sanjay Sharma | Scientist-F | NIC State Centre |
| 4. | Sh. Vijay Kumar Gupta | Scientist-F | NIC State Centre |
| 5. | Sh. Pankaj Gupta | Scientist-F | NIC State Centre |
| 6. | Sh. Shailender Kaushal | Scientist-F | NIC State Centre |
| 7. | Sh. Sanjay Thakur | Scientist-F | NIC State Centre |
| 8. | Sh. Ashish Sharma | Scientist D | NIC State Centre |
| 9. | Sh. Mukesh Kumar | Scientist D | NIC State Centre |
| 10. | Sh. Prithvi Raj | Scientist C | NIC State Centre |

| | | | |
|---|---|---|---|
| 11. | Sh. Pankaj | Stenographer Grade-III | NIC State Centre |
| 12. | Sh. Sanjay Kumar | Scientist-F | NIC HP CGO Complex |
| 13. | Sh. Vinod Kumar Garg | Scientist-F | NIC HP CGO Complex |
| 14. | Sh. Mangal Singh | Scientist-D | NIC HP CGO Complex |
| 15. | Sh. Chunni Lal Kashyap | Scientist-C | NIC High Court Shimla |
| 16. | Sh. Jitender Sharma | Scientist-B | NIC High Court Shimla |
| 17. | Sh. Rakesh Kumar | Scientist D | NIC District Centre, Bilaspur |
| 18. | Sh. Sandeep | Scientific/Technical Assistant-A | NIC District Centre, Chamba |
| 19. | Sh. Prashant Kumar | Scientific Officer/Engineer-SB | NIC District Centre, Hamirpur |
| 20. | Sh. Chetan Saini | Scientific Officer/Engineer-SB | NIC District Centre, Mandi |
| 21. | Sh. Jagdeep | Scientific/Technical Assistant-A | NIC District Centre, Lahaul & Spiti. |
| 22. | Sh. Balwan Singh | Scientist-D | NIC District Centre, Kinnaur |
| 23. | Sh. Akshay Mehta | Scientist F | NIC District Centre, Kangra |
| 24. | Sh. Sarvjeet Kumar | Scientist- C | NIC District Centre, Kangra |
| 25. | Sh. Deepak Kumar | Scientist- C | NIC District Centre, Shimla |
| 26. | Sh. Mohan Rakesh Aggarwal | Scientist-E | NIC District Centre, Sirmaur |
| 27. | Sh. Bhupinder Singh | Scientist-D | NIC District Centre, Una |

## Overview of Technical Presentations

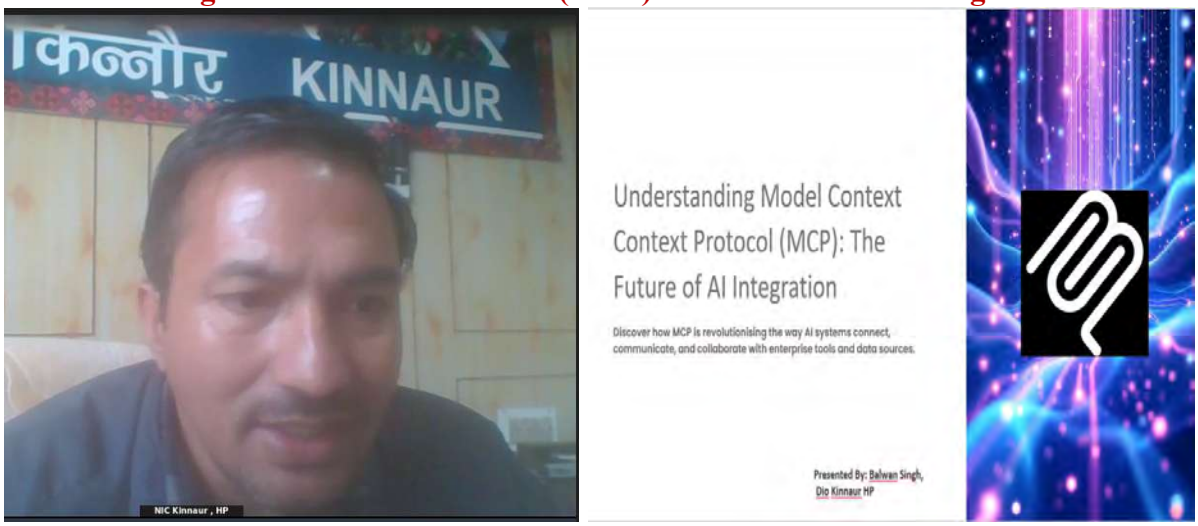
### Network Mapper (NMAP):




*Sh Shailender Kaushal presenting on NMAP.*

Sh Shailender Kaushal delivered the presentation on the NMAP. The presentation depicts that NMAP is a powerful open-source network scanning tool used to discover hosts, services, and vulnerabilities on a network. It works by sending packets to targets and analyzing responses to identify open ports, running services, operating systems, and potential security risks. A presentation on NMAP usually covers its scanning techniques (TCP SYN scan, UDP scan, OS detection, service version detection), common commands, practical use cases in network auditing, and its importance in cyber security for mapping networks, identifying weaknesses, and strengthening defenses.

### Understanding Model Context Protocol (MCP): The-Future of AI Integration:

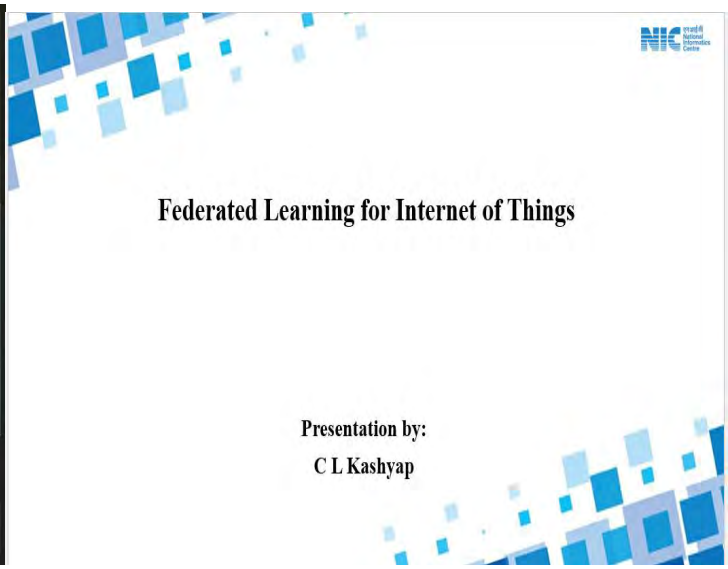



*Sh Balwan presenting on Understanding Model Context Protocol (MCP): The Future of AI Integration.*

Sh. Balwan delivered a presentation on Understanding-Model-Context-Protocol-MCP-The-Future-of-AI.

MCP is an open-standard protocol by Anthropic that lets AI systems easily connect to external tools and data without custom integrations. It solves the complexity of multiple APIs by providing a unified, secure, and discoverable interface, reducing development effort and improving AI performance. With its host–client–server design, MCP enables real-time data access, persistent context, and scalable AI integration across enterprise systems.

## Federated Learning for Internet of Things:




*Sh C L Kashyap presenting on Federated Learning for Internet of Things.*

Sh CL Kashyap delivered a presentation on Federated Learning for Internet of Things. The presentation explains how IoT connects sensor-based devices to collect and process data for smarter, automated systems, supported by components like sensors, connectivity, data processing, and user interfaces. It highlights IoT's benefits—efficiency, real-time insights, and safety—along with challenges such as security, interoperability, and scalability. It also introduces Federated Learning as a privacy-focused way to train machine-learning models without sharing raw data, describing centralized, decentralized, and hierarchical FL architectures. Overall, it concludes that FL will play a major role in enabling secure, scalable, and intelligent IoT systems in the future.

## Technical News:


*Sh. Vinod Garg, presenting the Technical News*

Sh. Vinod Garg presented the technical news. Here's topics of the main news covered in the presentation:

- OpenAI released GPT-5.1; Apple may use Google's Gemini AI in Siri; Microsoft launched a Superintelligence team.
- Cloudflare faced a major outage; AWS and OpenAI signed a $38B computing partnership; Google added new AI features to Pixel.
- India announced Atoms AI Cohort 2026, launched "YUVA AI for ALL," and promoted the YUVAi global youth AI challenge.
- DPDP Rules 2025 notified with phased enforcement and guidelines for consent, security, and data breach intimation.
- NIC launched new apps and portals across states, released the Hindi edition of Informatics magazine, achieved 100% Sewa Setu–Digi Locker integration, and participated in major national events.