

## SEMINAR REPORT

**Event:** Seminar on AI/ML by STEMkrit

**Date and Time:** November 20, 2025, at 11:30 AM

**Mode:** Online

**Venue:** DIST, New Delhi

**Participants:** B. Tech (CSE) students and accompanying faculty members.

On **20<sup>th</sup> November 2025**, a group of B.Tech (CSE) students from **Delhi Institute of Science and Technology (DIST)**, accompanied by faculty members, attended a seminar organized by **STEMkrit and HIGHCLOUDS STEM TECHNOLOGIES Pvt. Ltd.** The event, led by industry expert **Mr Vipin Sharma** and moderated by **Dr Saarthak Dulgaj**, provided an in-depth exploration of how AI/ML is revolutionizing various sectors of industry and education.

### Key Takeaways from the Seminar

#### 1. AI in Robotics

- Mr Sharma discussed how AI enables robots to perform tasks with higher precision and autonomy, using applications like object detection, autonomous navigation, and smart robotic arms.
- He showed how AI-driven decision-making helps robots analyse sensor data and adapt to changing environments, making robotics more efficient and intelligent.

#### 2. Integration of AI with Embedded Systems and IoT

- Mr Sharma explained how AI models are integrated with sensors, embedded systems, and IoT devices to improve performance and reliability.
- He described the full lifecycle of an AI-embedded system: data collection, signal processing, and real-time decision-making.
- The students learned how AI algorithms can detect component failures, optimise power usage, and refine electronic designs.

#### 3. Enhancing Product Design and Reliability

- The dialogue also covered how AI helps in optimising power efficiency and enhancing product design by predicting failure modes and improving system robustness.
- Predictive maintenance was emphasised as a way to reduce downtime and increase the longevity of electronic devices.

#### 4. Educational Impact

- For students, this seminar was an invaluable opportunity to understand how their academic learnings in AI/ML translate into **industrial innovations**.
- It gave them exposure to current technology trends, preparing them for future careers in electronics, embedded AI, and IoT.

### ❖ Vote of Thanks & Acknowledgements

The Vote of Thanks was delivered by **Dr Bhaskar Gupta**, Director of DIST. Dr Gupta sincerely appreciated STEMkrit and HIGHCLOUDS STEM TECHNOLOGIES for organising an informative and impactful session. He acknowledged Mr Vipin Sharma's valuable contribution, whose guidance and expertise provided students with deep insights into AI applications in robotics and electronics. He praised the students' enthusiasm and active participation, which contributed to the program's success.

### ❖ Speaker Profile: Mr Vipin Sharma

- **Founder & Director** of **STEMkrit**, an organisation focused on STEM education, particularly in robotics, AI, ML, IoT, drones, and 3D printing.
- **Director** at **HIGHCLOUDS STEM TECHNOLOGIES Pvt. Ltd.**, a company working at the intersection of manufacturing and STEM education/innovation.
- **NITI Aayog Regional Mentor of Change (RMOC)**: a role that highlights his involvement in national-level innovation and mentoring.
- Mr Sharma is an ed-tech entrepreneur and R&D strategist, deeply invested in **AI, robotics, embedded systems, and IoT**.
- He has experience in organising and conducting workshops, especially for students, helping them understand and apply cutting-edge technology.
- Through HIGHCLOUDS STEM Technologies, he promotes innovation in STEM education, building a bridge between academic learning and industrial application.
- He has been publicly recognised for his role in STEM education; for example, HighClouds STEM announced his selection as an “ATL Mentor of Change” by the Atal Innovation Mission.

### ❖ Photographs





AI & ML by Mr. Vipin Sharma.  
founder of High clouds

DELHI INSTITUTE OF SCIENCE AND TECHNOLOGY

Name of Program: Seminar on AI/ML by  
STEMKrit.

Date: 20 Nov 2025.

Roll no.	Name of student	Signature
5CSE001	Vartika	<u>Vartika</u>
25CSE002	Aryan	<u>Aryan</u>
25CSE003	Swati Jha	<u>Swati Jha</u>
25CSE005	S.M Rehan Alam	<u>S.M (all)</u>
25CSE008	Shushant	<u>Shushant</u>
25CSE009	Angel Jain	<u>Ab</u>
25CSE010	Vedant Giri	<u>Vedant</u>
25CSE011	Kaustabh Rajwar	<u>Kaustabh</u>
25CSE012	Anushka	<u>Anushka</u>
25CSE015	Nandini Sharma	<u>Nandini</u>
25CSE017	Pratishtha	<u>Pratishtha</u>
25CSE018	Vansh Srivastava	<u>Ab</u>
25CSE020	Dipesh Teli	<u>Dipesh</u>
25CSE021	Aditya Sharma	<u>Aditya</u>
25CSE022	Akshat Gupta	<u>Akshat</u>
25CSE023	Manan Bhardwaj	<u>Manan</u>
25CSE024	Mehul Singh	<u>Mehul Singh</u>
25CSE025	Dhruv	<u>Dhruv</u>
25CSE028	Dhruv	<u>Dhruv</u>
25CSE029	Divya	<u>Ab</u>
25CSE031	Subhi	<u>Subhi</u>
25CSE032	Reshma	<u>Reshma</u>
25CSE033	Aditi Singh	<u>Aditi Singh</u>
25CSE034	Shivam Sharma	<u>Shivam</u>
25CSE035	Sakshi Sharma	<u>Ab</u>
25SCE009	Priyanshu	<u>Priyanshu</u>

Bharat  
Director 20.11.2025

