

A Report on Guest Lecture on "AI in Ethical Hacking"

Organized by

**Department of CSE-Artificial Intelligence & Machine Learning
on 24.12.2025**



Report Submitted by: Mr. V. Sivaraman, Assistant Professor, Department of CSE-Artificial Intelligence and Machine Learning.

Resource Person Details: Mr. Chandraprakash Shankar, CEO, Hackers Infotech, Chennai

Participants: II Year CSE (AI and ML) – 120 Students

Venue: Seminar Hall - B

Mode of conduct: Offline

Report Received on 31.12.2025.

Department of Computer Science and Engineering (AI and ML) organized a Guest Lecture on “**AI in Ethical Hacking**” on 24.12.2025 (Wednesday).

Welcome Address:

Mr. V. Sivaraman, Assistant Professor, Department of CSE (AI and ML) at Madanapalle Institute of Technology & Science (MITS), Madanapalle, delivered a warm and engaging welcome address to all attendees as the event commenced at 10:00 AM. The main aim of the Guest Lecture was to raise awareness and foster a practical understanding among students of the vital importance of Artificial Intelligence in Ethical Hacking. This was to be achieved by introducing them to actual cyber threats, AI-based security measures, professional tools used in the field, and new career paths.

Keynote Address

Dr. S. Padma, Associate Professor and Head, Department of CSE (AI and ML), Madanapalle Institute of Technology & Science (MITS), Madanapalle, welcomed the student with her keynote address, emphasizing the significance of such initiatives in shaping students' futures and commending their active involvement. She encouraged students to foster innovation through the adoption of new technologies that meet current industry needs. In addition, she highlighted ongoing learning and the enhancement of skills as essential elements in constructing professional careers that are both successful and sustainable.

The gathering was addressed by Dr. P. Ramanathan, Principal of MITS in Madanapalle, and he stressed the session's significance. The Principal urged students to engage actively in the expert session, connect with the speaker, and take full advantage of the chance to resolve their uncertainties and acquire detailed knowledge. He inspired students to concentrate on these fields in order to improve their job prospects and attain success in competitive spheres.

Resource Person Lecture:

Mr. Chandraprakash Shankar, CEO, Hackers Infotech, Chennai, shared his insights related to Guest Lecture on **AI in Ethical Hacking** for II CSE (AI and ML) students.

The Guest Lecture covered the following:

- Types of Hacking
- Cyberbullying in Social Media
- Google Dorks
- Cyber Crime and Cyber Law
- Cyber Crime Case
- Phishing Attack

Critical Role of AI in Cybersecurity

The resource person emphasized that AI does not substitute for human experts; rather, it enhances human abilities. AI is essential in various areas of cybersecurity, including:

- Vulnerability Assessment & Penetration Testing (VAPT)
- Security Operations Center (SOC) & SIEM
- Threat Intelligence
- Incident Response



Role of AI in Ethical Hacking

- Identifying vulnerabilities faster
- Simulating real-world attack scenarios
- Prioritizing exploitable vulnerabilities
- Reducing false positives

AI in Phishing:

The resource person stressed that more than 90% of cyber breaches begin with phishing attacks. Phishing emails generated by AI and voice cloning based on AI have increased the believability of attacks. Solutions based on AI assist through:

- Analysis of E-mail behavior
- Detection of voice anomalies
- Identification of abnormal login behavior

AI for Threat Detection and Incident Response

AI enables organizations to:

- Detect unknown and advanced attacks
- Identify lateral movement within networks
- Predict attacker intent
- Automate responses using SOAR platforms

Vote of thanks

The event was formally concluded with a Vote of Thanks from Mr. V. Sivaraman, Assistant Professor in the Department of CSE (AI and ML), MITs. He conveyed his heartfelt thanks to the resource person for dedicating time to share his expertise and valuable insights with the students. He expressed his gratitude to the Management, Principal, and Head of Department for their unwavering support and encouragement in successfully organizing the Guest Lecture.

Outcomes:

At the end of Presentation, Students will be able to

1. Students gained practical insights into AI in Ethical Hacking.
2. Students gained Awareness about industry tools and real-world attack scenarios.
3. Students enhanced their understanding skills towards career paths in cyber security.
4. Strengthened academia–industry interaction through expert engagement.

UN-SDG Mapping:

SDG 4 – Quality Education

SDG 8 – Decent Work and Economic Growth

SDG 9 – Industry, Innovation, and Infrastructure

SDG 16 – Peace, Justice and Strong Institutions

SDG 17 – Partnerships for the Goals