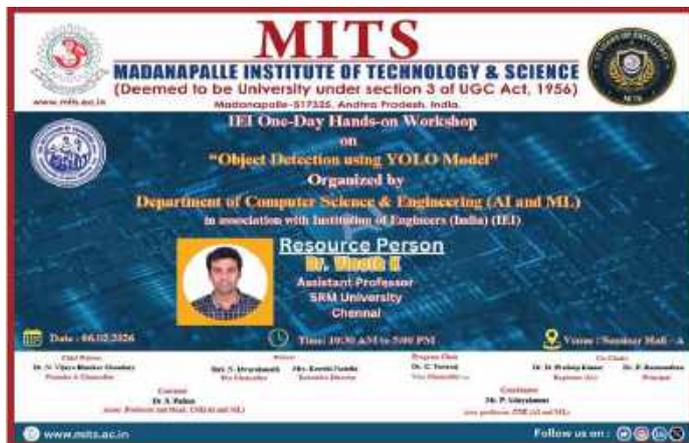




Report on **One-Day Hands-on Workshop on**
“Object Detection using YOLO Model”
Organized by **Department of CSE (AI and ML)**
06.02.2026.



Report Submitted by: **Mr. Udayakumar P, Assistant Professor, Department of CSE (AI and ML)**

Resource Person Details: **Dr. Vinoth K, Assistant Professor, SRM University, Chennai**

Participants: **IEI & ISTE Members – Second Year Students**

Venue: **Seminar Hall-A (South Block) and NPN005, NPN Block**

Mode of Conduct: **Offline**

Report Received on **06.02.2026.**

The Department of Computer Science and Engineering (AI and ML), Madanapalle Institute of Technology & Science (MITS), Madanapalle, in association with the **Institution of Engineers (India) (IEI)**, successfully organized a **One-Day Hands-on Workshop** titled “**Object Detection using YOLO Model**” on **06th February 2026** at **Seminar Hall – A**.

The workshop was organized with the objective of providing students with in- depth theoretical knowledge and practical exposure to **computer vision and deep learning**, focusing on real-time object detection using **YOLO (You Only Look Once)** models. The program aimed to bridge the gap between academic learning and industry requirements by emphasizing hands-on implementation.

Welcome Address:

The program commenced with a warm welcome address by **Mr. Udayakumar P, Assistant Professor, Department of CSE (AI and ML)**. He welcomed the Principal, Head of the Department, resource person, faculty members, and student participants. He highlighted the relevance of object detection in modern AI applications and emphasized the importance of hands-on workshops in enhancing students’ technical competency and industry readiness.



Address by Head of the Department:

The **Head of the Department, Dr. S. Padma, Professor & Head, Department of CSE (AI and ML)**, addressed the participants and highlighted the significance of organizing hands-on technical programs aligned with current industry trends. She emphasized that **computer vision and deep learning** are among the most sought-after skill areas and that exposure to tools and frameworks like **YOLO** equips students with practical problem-solving abilities. She encouraged students to actively engage throughout the sessions, utilize the hands-on practice effectively, and apply the acquired knowledge in mini-projects, research work, and real-world applications. She also appreciated the organizing team and acknowledged the support of **IEI** in facilitating such technical enrichment programs.

Principal's Address:

The **Principal, MITS – Madanapalle**, addressed the gathering and appreciated the Department of CSE (AI and ML) for organizing an industry-oriented hands-on workshop on **Object Detection using YOLO Model**. He emphasized the institution's commitment to promoting **skill-based learning, innovation, and practical exposure** among students. He highlighted that workshops combining theory with real-time implementation play a vital role in improving students' employability and research capabilities. The principal encouraged students to actively participate, learn beyond the syllabus, and make effective use of expert sessions to stay updated with rapidly evolving technologies in Artificial Intelligence and Machine Learning. He conveyed his best wishes for the successful conduct of the workshop.

Resource Person Lecture:

The technical sessions were delivered by **Dr. Vinoth K, Assistant Professor, SRM University, Chennai**. His sessions were highly interactive and focused on both conceptual understanding and practical implementation. The key topics covered included:

- Introduction to Computer Vision and Object Detection
- Evolution of Object Detection Techniques
- YOLO Architecture and Working Mechanism
- Comparison of YOLO with Traditional Object Detection Models
- Real-time Object Detection using YOLO
- Applications of YOLO in Surveillance, Healthcare, and Autonomous Systems
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The resource person explained complex concepts in a clear and structured manner, making them easily understandable for students.

Hands-on Practical Session:

The hands-on session was the core component of the workshop. Students actively participated using their own laptops and gained practical exposure through live demonstrations. The hands-on activities included:

- Setting up the Python and deep learning environment
- Understanding YOLO configuration files and datasets
- Running pre-trained YOLO models
- Performing real-time object detection using images and video streams
- Analyzing detection outputs and confidence scores.

The interactive nature of the session enabled students to clarify doubts instantly and gain confidence in implementing object detection models independently.

Participant Interaction:

The participants showed keen interest and enthusiasm throughout the workshop. Students actively engaged in discussions, asked insightful questions, and participated in live demonstrations. The workshop successfully fostered critical thinking and practical understanding of deep learning-based object detection techniques.

Memento Presentation:

As a token of appreciation, a **memento** was presented to **Dr. Vinoth K** by the department, acknowledging his valuable contribution and effective delivery of the workshop sessions.

Vote of Thanks:

The program concluded with a vote of thanks delivered by **Mr. Udayakumar P, Assistant Professor, Department of CSE (AI and ML)**. He expressed sincere gratitude to the resource person, management, Principal, HoD, IEI, Media Cell, faculty members, organizing committee, and student participants for their cooperation and support in making the event a grand success.



