

Exploring the Impact of AI/ML & Benefits of IEEE Membership

1. General Information

- Name of Student Chapter: IEEE O.P Jindal University Student Chapter
- Region/Section: IEEE MP Section
- Activity Title: **Exploring the Impact of AI/ML & Benefits of IEEE Membership**
- Date of Activity: 09/04/2025
- Venue: **Conference Room(G15), OP Jindal University Raigarh**
- Type of Activity: Expert Talk

2. Organizing Committee

- Faculty Advisor: Prof. Jitendra Kumar Gardia
- Student Chairperson: Mr. Kshitij Chandrakar

3. Objective of the Activity

The primary objective of this activity was to:

- **Introduce students to the fundamental concepts and real-world applications** of Artificial Intelligence (AI) and Machine Learning (ML), empowering them with knowledge of current trends and emerging technologies.
- **Demonstrate the practical relevance of AI/ML** in diverse fields such as healthcare, finance, transportation, and automation, thereby encouraging students to explore these domains for academic and career growth.
- **Motivate students to become active members of the IEEE Student Chapter** by highlighting the benefits of IEEE membership, including access to global resources, professional development opportunities, and a platform to collaborate, innovate, and lead in the tech community.
- **Foster a culture of continuous learning and technical curiosity** through engagement in IEEE-led initiatives, workshops, and student-driven innovation.

4. Target Audience and Participation

- Target Audience: 2nd and 3rd Year B. Tech CSE students and IEEE student chapter members
- Number of Participants: 67
- IEEE Members Participated: 18
- IEEE Members Faculty: 10
- Non-IEEE Participants: 39

5. Event Description

The IEEE O.P Jindal University IEEE Student Chapter organized a technical awareness session titled “Exploring the Impact of AI/ML & Benefits of IEEE Membership” on 09/04/2025 at the Conference Hall of OPJU. The session aimed to introduce students to the

fundamental concepts of Artificial Intelligence and Machine Learning, their real-world applications, and how IEEE membership can amplify learning and professional development.

The event commenced with a welcome address by Kshitij Chandra kar, Chairperson of the IEEE Student Chapter, followed by an opening note from the Faculty Advisor, Prof. Jitendra Kumar Gardia , who highlighted the role of IEEE in nurturing innovation among students.

The keynote speaker, **Dr.GS Tomar**, Chairman IEEE MP Section, delivered an insightful presentation on:

- The evolution of AI and Machine Learning
- Core concepts like supervised vs. unsupervised learning
- Applications in healthcare, finance, and smart systems
- Ethical considerations and the future of AI

A live demonstration of basic machine learning model implementation using Python helped students connect theory with practice. The session was made interactive through polls and Q&A rounds, ensuring active participation.

In the second half, the IEEE Core Committee presented the **benefits of IEEE student membership**, including:

- Access to global research via IEEE Xplore
- Technical webinars, competitions, and scholarships
- Leadership opportunities through IEEE Student Activities
- The role of IEEE in career enhancement and networking

6. Outcome and Benefits

Key Outcomes:

- **Conceptual Clarity:** Students understood key AI/ML principles, including supervised/unsupervised learning, neural networks, and real-world problem-solving.
- **Hands-on Exposure:** Live demonstrations and case studies helped students visualize the implementation of ML algorithms using tools like Python, Scikit-learn, or TensorFlow.
- **Career Awareness:** The session highlighted trending job roles in AI/ML and pathways to become AI engineers, data scientists, or research scholars.

IEEE Motivation and Engagement:

- Students became aware of the advantages of being IEEE members, such as access to IEEE Xplore digital library, scholarships, project funding, and international networking.

- The session encouraged peer collaboration through student-led technical communities, increasing enthusiasm for future participation in IEEE activities, hackathons, and workshops.
- Students showed interest in forming special interest groups (SIGs) in AI/ML under the IEEE Student Chapter, promoting continuous learning.

Overall Benefit:

The event not only built technical awareness but also fostered a spirit of **innovation, collaboration, and professionalism**, aligning with IEEE's vision of advancing technology for humanity.

7. Feedback and Suggestions

Feedback Summary:

- The event was **well-received by participants**, with most students appreciating the practical approach to explaining AI and ML concepts.
- Students found the **real-world case studies** and examples particularly engaging and helpful in understanding complex topics.
- Many attendees expressed interest in having **follow-up sessions** with deeper technical focus and hands-on projects.
- The speaker's session was rated highly for clarity, relevance, and enthusiasm.
- Participants also appreciated the segment on **IEEE membership benefits**, which encouraged several students to consider joining the chapter.

Suggestions for Improvement:

- Include a **live coding/demo session** or a short AI/ML model-building activity to increase engagement.
- Provide **resource links or a post-event toolkit** (slides, code, references) for self-paced learning.
- Organize **smaller breakout sessions or Q&A panels** for personalized interaction with experts.
- Schedule events during hours that avoid academic clashes to ensure broader participation.

8. Supporting Media



O. P. Jindal University, Raigarh
Department of Computer Science Engineering
in Association with IEEE MP Section
Institute of Electrical and Electronics Engineers
Session On

Exploring the Impact of AI/ML & Benefits of IEEE Membership



Speaker
Prof. G. S. Tomar
Chairman
(IEEE MP Section)

**9 April 2025****4:00 - 6:00 PM****Conference Room OPJU (G-15)**

Facilitator



Dr. Ashish K Sharma
Professor & Head
Dept. of CSE, OPJU

Moderator



Prof. Jitendra K Gardia
Assistant Professor
Dept. of CSE, OPJU



9. Acknowledgments

- We express our sincere gratitude to all those who contributed to the successful organization of this event.
- We thank the Management and Administration of [Your Institution Name] for their continuous support and encouragement.
- Special thanks to our Faculty Advisor, [Faculty Name], for their guidance, motivation, and involvement throughout the planning and execution of this activity.
- We are grateful to our distinguished speaker(s) for sharing their time, expertise, and valuable insights into the world of Artificial Intelligence and Machine Learning.
- Heartfelt appreciation to the IEEE [Your Institution Name] Student Chapter Executive Committee and the organizing volunteers whose dedication and teamwork made the event smooth and impactful.
- We also acknowledge the support from the IEEE [Your Region or Section], which continuously empowers student members through resources, mentorship, and collaboration.
- Lastly, we thank all the participants for their enthusiastic involvement, insightful questions, and commitment to learning.
- Together, we strive to continue promoting technological awareness and professional development in alignment with IEEE's mission of "Advancing Technology for Humanity."

10. Submitted by

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