



# MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE

(UGC-AUTONOMOUS INSTITUTION)



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NAAC Accredited with A+ Grade, NIRF India Rankings 2024 - Band: 201 - 300 (Engg.)

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## A Report on

## A Six-Day Industry-Oriented Online FDP on “The Power of AI in Industry: Automating AI Development and Ensuring its Practices”

Organized by

Department of Computer Science & Engineering (Artificial Intelligence)  
Madanapalle Institute of Technology & Science (MITS)

Sponsored by

IEEE Robotics and Automation Society, MITS

in association with IEEE IEEE Robotics and Automation Society, MITS  
IIC and MITS IIC

Date: 03-March-2025 to 08-March-2025

<p><b>About MITS</b></p> <p>Madanapalle Institute of Technology &amp; Science is established under the auspices of Ratakonda Ranga Reddy Educational Academy, in the year 1998, under the visionary proactive leadership of Dr. N. Vijaya Bhaskar Choudary, Ph.D., Secretary &amp; Correspondent. This is the most sought after premier Institution, situated in the charismatic abode of Hosley Hills, in the hilly regions of Madanapalle, Annamayya district of Andhra Pradesh. MITS is approved by AICTE, New Delhi and affiliated to JNTUA, Anantapuramu. MITS is a NAAC accredited Institution with A+ Grade, with autonomous status from UGC since 2014. MITS is an ISO 21001:2018 Institution. MITS ranked in the band 201 - 300 - NIRF 2024 under Engineering Discipline. National Board of Accreditation (NBA) accredited II UG Programmes (BTech Computer Science &amp; Engineering, Computer Science &amp; Engineering (Artificial Intelligence), Computer Science &amp; Engineering (Artificial Intelligence &amp; Machine Learning), Computer Science &amp; Engineering (Data Science), Computer Science &amp; Engineering (Cyber Security), Computer Science &amp; Engineering (Networks), Computer Science &amp; Technology, Electronics &amp; Communication Engineering, Electrical &amp; Electronics Engineering, Mechanical Engineering &amp; Civil Engineering and 3 PG programmes (MBA, MCA and MTech) Computer Science &amp; Engineering.</p>	<p><b>Chief Patron</b> Dr. N. Vijaya Bhaskar Choudary Secretary &amp; Correspondent</p> <p><b>Patron</b> Mrs. Keerthi Nadella Executive Director</p> <p><b>Program Chair</b> Dr. C. Yuvaraj Principal</p> <p><b>Convener</b> Dr. K. Chokkanathan HoD &amp; Assoc.prof., Dept. of CSE - AI</p> <p><b>Co-Convener(s)</b> Dr. Vamsi Bandi Dr. G. Jenifa Asst. Prof. Dept. of CSE - AI</p> <p><b>Co-ordinators</b> Mr. Shahad P Mr. R. Ashok Kumar Mr. K. Mahammad Asst. Prof. Dept. of CSE - AI</p> <p><b>Certificate:</b> E-certificate will be provided to all the participants with 80% attendance in the FDP. Students will receive E-certificate as “Short Term Training Program”</p>	   <p><b>MADANAPALLE INSTITUTE OF TECHNOLOGY &amp; SCIENCE</b> (UGC-AUTONOMOUS INSTITUTION) Madanapalle - 517325, Annamayya Dist., Andhra Pradesh, India</p> <p><b>Department of Computer Science and Engineering (Artificial Intelligence) Organizes</b></p> <p><b>Six Days Industry-oriented Online Faculty Development Programme (FDP) on</b> “The power of AI in Industry: Automating AI Development and Ensuring its Practices” Sponsored by “IEEE Robotics and Automation Society”</p>  <p><b>Date: 03/03/2025 to 08/03/2025</b> <b>Time: 6:00 PM to 7:30 PM (IST)</b></p>    <p><a href="http://www.mits.ac.in">www.mits.ac.in</a></p>
<p><b>Institute Vision</b></p> <p>To become a globally recognized research and academic institution and thereby contribute to technological and socio-economic development of the nation.</p>		
<p><b>Institute Mission</b></p> <p>To foster a culture of excellence in research, innovation, entrepreneurship, rational thinking and civility by providing necessary resources for generation, dissemination and utilization of knowledge and in the process create an ambience for practice-based learning to the Youth for success in their careers.</p>		
<p><b>About The Department</b></p> <p>The Department of Artificial Intelligence offers 4-year degree in Artificial Intelligence, which is established in the year 2020. The course is flexible and has been structured to meet the evolving needs of the IT industry. The College Academic Council, Board of Studies of the department strive to provide quality education and most advanced curriculum and syllabus to make the students industry ready and excel in the contemporary business world.</p> <p>B. Tech. In Artificial Intelligence (AI) is an undergraduate programme with advanced learning solutions imparting knowledge of advanced innovations like Artificial Intelligence, Machine Learning and Deep Learning. The main goal of artificial intelligence (AI) is to program computers to use example data or experience to solve a real-life / real-time problem.</p>		

Resource Persons		About FDP																						
<b>Day 01:</b> 03.03.2025 <b>(Monday)</b> <b>Time:</b> 6:00 PM to 7:30 PM (IST) Mode: ONLINE (MS Teams)	 <b>Mr. Alad Manoj Peter</b> Founder and CTO, Standard Insights Private Limited, India Specialization: Artificial Intelligence (AI), Machine Learning (ML), Linux Systems, Networks and network Security <b>Topic: Business Intelligence</b>	This Faculty Development Program (FDP) focuses on the latest advancements in AI industry innovations, emphasizing automation, business intelligence, generative AI, and responsible AI practices. The sessions will explore how AI-driven automation is transforming industries, optimizing development processes, and driving sustainability. Experts from leading organizations will discuss domain fine-tuning, AI in electric vehicles, ethical AI for LLMs, and AI-powered business intelligence. Participants will gain insights into real-world AI applications, best practices, and emerging trends that shape the future of AI in industry. This FDP is ideal for faculty, researchers, students and professionals looking to integrate AI into their work.																						
<b>Day 02:</b> 04.03.2025 <b>(Tuesday)</b> <b>Time:</b> 6:00 PM to 7:30 PM (IST) Mode: ONLINE (MS Teams)	 <b>Mr. Arun Pandian R</b> Senior Data Engineer Siemens, India Specialization: Artificial Intelligence, Full Stack Applications, Deep Learning/Modeling, Data Warehousing, and Data Engineering <b>Topic: Automating AI Development with Domain Fine Tuning</b>																							
<b>Day 03:</b> 05.03.2025 <b>(Wednesday)</b> <b>Time:</b> 6:00 PM to 7:30 PM (IST) Mode: ONLINE (MS Teams)	 <b>Mr. Mahatej Varma</b> Software Development Engineer-1 Amazon India Private Ltd, Hyderabad, India Specialization: Data structures and Algorithms, Data Engineering <b>Topic: Demystifying Artificial Intelligence</b>																							
<b>Day 04:</b> 06.03.2025 <b>(Thursday)</b> <b>Time:</b> 6:00 PM to 7:30 PM (IST) Mode: ONLINE (MS Teams)	 <b>Dr. Saroja S</b> Assistant Professor Department of Computer Applications NIT Trichy, Tamil Nadu, India Specialization: Multiprocessor Scheduling, Multicriteria Decision Making <b>Topic: Role of Artificial Intelligence in enabling the electric vehicle revolution</b>																							
<b>Day 05:</b> 07.03.2025 (Friday) <b>Time:</b> 6:00 PM to 7:30 PM (IST) Mode: ONLINE (MS Teams)	 <b>Ms. Deekshitha Kolusu</b> Data Engineer IBM, Bangalore, India Specialization: Data Engineering, Artificial Intelligence <b>Topic: Generative AI</b>																							
<b>Day 06:</b> 08.03.2025 <b>(Saturday)</b> <b>Time:</b> 6:00 PM to 7:30 PM (IST) Mode: ONLINE (MS Teams)	 <b>Mr. Uday Kiran Appalaneni</b> Responsible AI Engineer Accenture solutions private limited, Bangalore, India. Specialization: Machine Learning, Deep Learning, NLP, LLMs, XAI <b>Topic: Responsible AI for LLMs</b>																							
Participants are required to fill in the online registration form by clicking on the following link or QR code: <a href="https://forms.gle/p4KQKC2T8BmTjwYJ8">https://forms.gle/p4KQKC2T8BmTjwYJ8</a>		<b>Registration</b> We Invite Faculty, Research Scholars and the Students to participate in the International Level Online Faculty Development Program (FDP). We request you to pay the registration fee using UPI transfer and also provide your personal and transaction details in the given below link to complete your registration for the FDP.																						
		<b>Scan Code for Registration</b> <table border="1"> <tr> <td>For Faculty and research scholar members (INDIAN &amp; Non-IEEE Member): Rs. 100/-</td> <td rowspan="4"></td> </tr> <tr> <td>For Faculty and research scholar members (INDIAN &amp; IEEE Member): Rs. 50/-</td> </tr> <tr> <td>For students (INDIAN &amp; Non-IEEE Member): Rs. 50/-</td> </tr> <tr> <td>For students (INDIAN &amp; IEEE Member): Rs. 20/-</td> </tr> <tr> <td>For Faculty and research scholar members (INTERNATIONAL): USD</td> <td></td> </tr> <tr> <td>For students (INTERNATIONAL): No Fee</td> <td></td> </tr> </table>	For Faculty and research scholar members (INDIAN & Non-IEEE Member): Rs. 100/-		For Faculty and research scholar members (INDIAN & IEEE Member): Rs. 50/-	For students (INDIAN & Non-IEEE Member): Rs. 50/-	For students (INDIAN & IEEE Member): Rs. 20/-	For Faculty and research scholar members (INTERNATIONAL): USD		For students (INTERNATIONAL): No Fee														
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		<b>Deadline for registration: 26-Feb-2025, 11:30 PM</b> <b>Note: Whatsapp group and meeting links will be provided through E-Mail communication for the registered participants only.</b>																						
		<b>Program Committee Members</b> <table border="0"> <tr> <td>Dr. A. Poongodai Asst. Prof.</td> <td>Ms. Ayisha Noori V K Asst. Prof.</td> </tr> <tr> <td>Dr. Purandhar N Asst. Prof.</td> <td>Ms. N. Mohana Priya Asst. Prof.</td> </tr> <tr> <td>Dr. K. Hemalatha Asst. Prof.</td> <td>Mr. G. R. Hemanth Kumar Asst. Prof.</td> </tr> <tr> <td>Dr. S. Katalvani Asst. Prof.</td> <td>Ms. R. Dhanalakshmi Asst. Prof.</td> </tr> <tr> <td>Mr. Anandh Nagarajan Asst. Prof.</td> <td>Mr. D. Jagannathan Asst. Prof.</td> </tr> <tr> <td>Mrs. V. Nirupa Asst. Prof.</td> <td>Mr. Sreenath Kocharala Asst. Prof.</td> </tr> <tr> <td>Ms. R. Rampriya Asst. Prof.</td> <td>Mr. Vasudevan M Asst. Prof.</td> </tr> <tr> <td>Mr. K. Chandra Sekhar Asst. Prof.</td> <td>Mr. Kiran Palakeel Asst. Prof.</td> </tr> <tr> <td>Mr. V. V. S. Trinadh Naidu Asst. Prof.</td> <td>Mrs. A. Naga Lakshmi Asst. Prof.</td> </tr> <tr> <td>Mr. J. Viswanath Asst. Prof.</td> <td>Mr. Taralakar Pawan Asst. Prof.</td> </tr> <tr> <td>Mr. P. Raguraman Asst. Prof.</td> <td>Mr. P. Jayanth Yadav Asst. Prof.</td> </tr> </table>	Dr. A. Poongodai Asst. Prof.	Ms. Ayisha Noori V K Asst. Prof.	Dr. Purandhar N Asst. Prof.	Ms. N. Mohana Priya Asst. Prof.	Dr. K. Hemalatha Asst. Prof.	Mr. G. R. Hemanth Kumar Asst. Prof.	Dr. S. Katalvani Asst. Prof.	Ms. R. Dhanalakshmi Asst. Prof.	Mr. Anandh Nagarajan Asst. Prof.	Mr. D. Jagannathan Asst. Prof.	Mrs. V. Nirupa Asst. Prof.	Mr. Sreenath Kocharala Asst. Prof.	Ms. R. Rampriya Asst. Prof.	Mr. Vasudevan M Asst. Prof.	Mr. K. Chandra Sekhar Asst. Prof.	Mr. Kiran Palakeel Asst. Prof.	Mr. V. V. S. Trinadh Naidu Asst. Prof.	Mrs. A. Naga Lakshmi Asst. Prof.	Mr. J. Viswanath Asst. Prof.	Mr. Taralakar Pawan Asst. Prof.	Mr. P. Raguraman Asst. Prof.	Mr. P. Jayanth Yadav Asst. Prof.
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		<b>Further Details Contact:</b> <b>Dr. Vamsi Bandi , Assistant Professor, Dept. of CSE- AI, MITS</b> +91 9618912959, drvamsib@mits.ac.in <b>Dr. G. Jenifa, Assistant Professor, Dept. of CSE- AI, MITS</b> +91 9488368212, drjenifa@mits.ac.in																						

Report submitted by: **Dr. Vamsi Bandi, Assistant Professor, Department of CSE(AI)**

**Chair:**

Dr. C. Yuvaraj, Principal, MITS

**Convener:**

Dr. K. Chokkanathan, HoD & Associate Professor, Dept. of CSE-AI

**Co-Convenors:**

Dr. Vamsi Bandi, Assistant Professor, Dept. of CSE-AI

Dr. G. Jenifa, Assistant Professor, Dept. of CSE-AI

**Co-ordinators:**

Mr. Shahad P, Assistant Professor, Dept. of CSE-AI

Mr. R. Ashok Kumar, Assistant Professor, Dept. of CSE-AI

Mr. K. Mahammad, Assistant Professor, Dept. of CSE-AI

**Total No. of Registrations: 276 (100 Faculty + 176 students)**

- For Faculty: E-Certificate provided as ‘FDP’ program
- For students: E-Certificate provided as “Short Term Training Program”

**Mode of Delivery:** Online (Microsoft Teams)

**About the FDP:**

The **Faculty Development Program (FDP)** on “**The Power of AI in Industry**” was designed to provide faculty, research scholars, and students with deep insights into the latest advancements in AI industry innovations. The program focused on **AI-driven automation, business intelligence, domain fine-tuning, ethical AI, and generative AI**, bridging the gap between academia and industry through expert talks from leading professionals.

**Inaugural Session:**

The program commenced on **03-March-2025 at 5:45 PM** with a **presidential address** by **Prof. P. Ramanathan, Vice Principal-Academics MITS**, followed by a **welcome address** by **Dr.**



**K. Chokkanathan, HoD & Associate Professor, Department of CSE-AI.** The welcome address highlighted the **participant demographics**, including faculty, researchers, and students from **various states in India and international locations**.

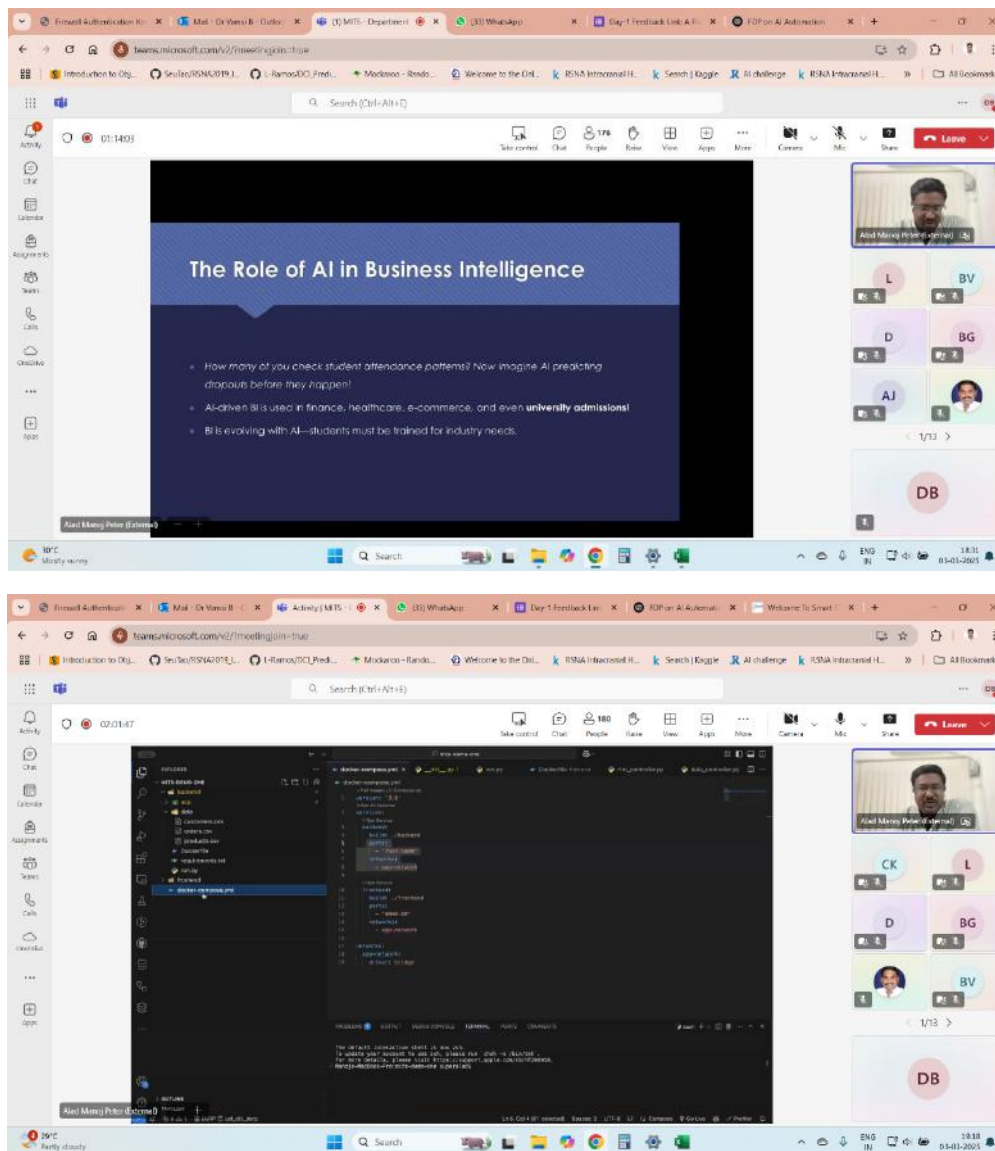
### Day-Wise Session Details:

**Day 1: 03-March-2025 (Monday) | Time: 6:00 PM – 7:30 PM**

**Resource Person:** Mr. Alad Manoj Peter, Founder & CTO, Standard Insights, India

**Topic:** Business Intelligence

**Mode:** Online (MS Teams)



The session began with Mr. Alad Manoj Peter explaining the importance of AI in Business Intelligence, covering topics such as data-driven decision-making, predictive analytics, and AI-powered automation. He provided a live demonstration on implementing AI in business models and emphasized the practical application of AI tools. The session ended with an engaging Q&A session.

### Key Discussion Points:

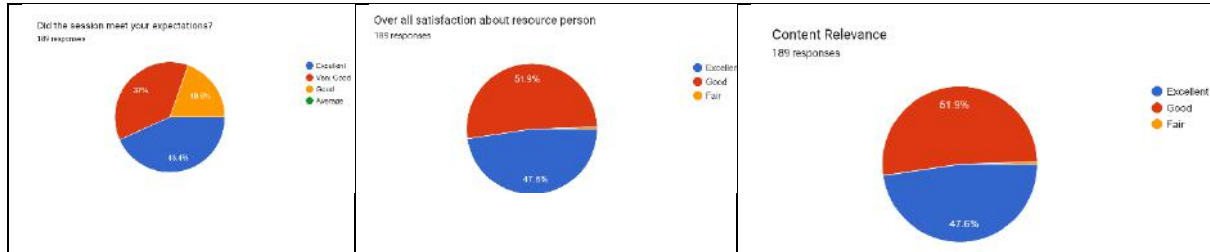
- Introduction to Business Intelligence (BI) and its impact on decision-making.
- AI-driven analytics for business insights and predictive modeling.
- Data-driven decision-making: Leveraging AI for data visualization and interpretation.

- Real-world case studies demonstrating the use of AI in market analysis and forecasting.
- Live demonstration of AI tools used in business intelligence.

### Presentation Highlights:

- Explained AI-powered dashboards for analyzing and presenting data.
- Showcased automation in report generation using AI tools.
- Discussed ethical AI practices in business analytics.
- Q&A session focused on implementing BI strategies in organizations.

### Feedback on Day-1 session:

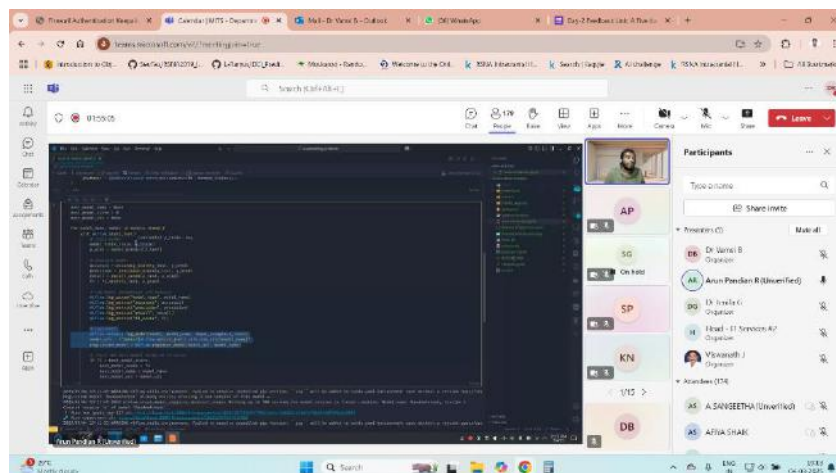
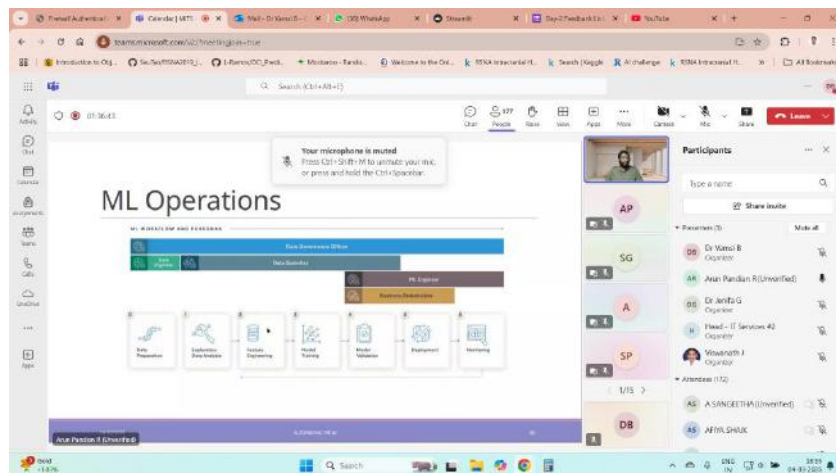


**Day 2: 04-March-2025 (Tuesday) | Time: 6:00 PM – 7:30 PM**

**Resource Person:** Mr. Arun Pandian R, Senior Data Engineer, Siemens, India

**Topic:** Automating AI Development with Domain Fine-Tuning

**Mode:** Online (MS Teams)



Mr. Arun Pandian R provided insights into domain-specific AI model fine-tuning, discussing AI automation strategies and data engineering for AI scalability. He also explained AI model optimization for business applications and presented case studies on efficient AI deployment.

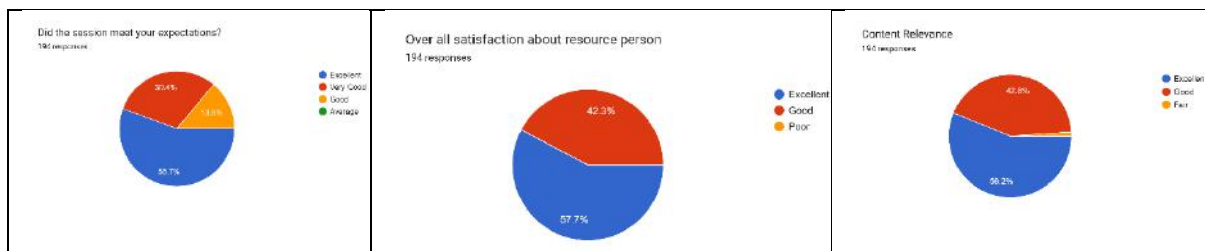
### Key Discussion Points:

- AI automation in model training and deployment.
- Fine-tuning AI models for domain-specific applications (e.g., healthcare, finance).
- Optimizing AI workflows with automation tools.
- Using advanced machine learning frameworks for model enhancement.
- Addressing common challenges in AI development and deployment.

### Presentation Highlights:

- Demonstrated domain-specific AI fine-tuning for improving model accuracy.
- Explained industry use cases where AI automation enhances business processes.
- Showcased Python-based AI automation tools for scalable deployment.
- Q&A session on integrating AI models with existing software solutions.

### Feedback on Day-2 session:

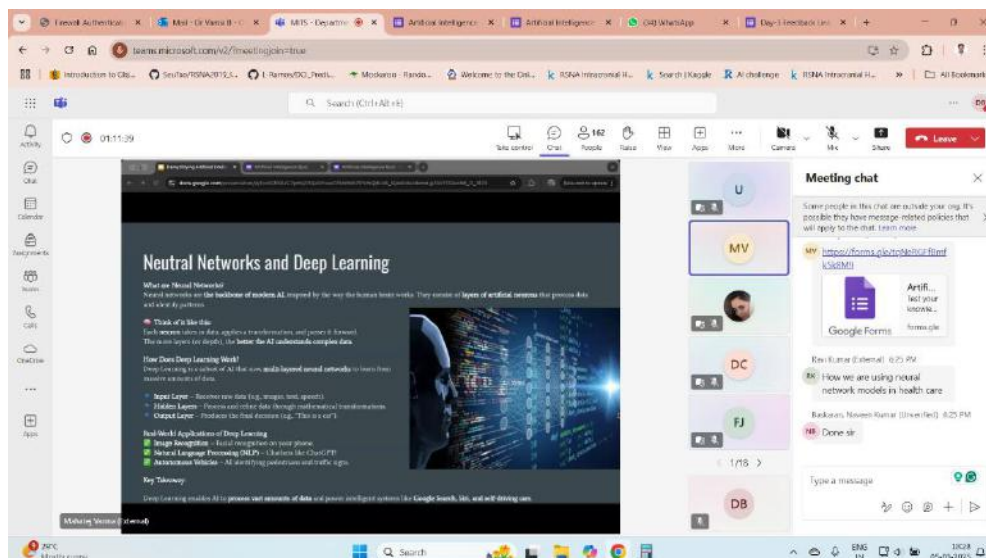


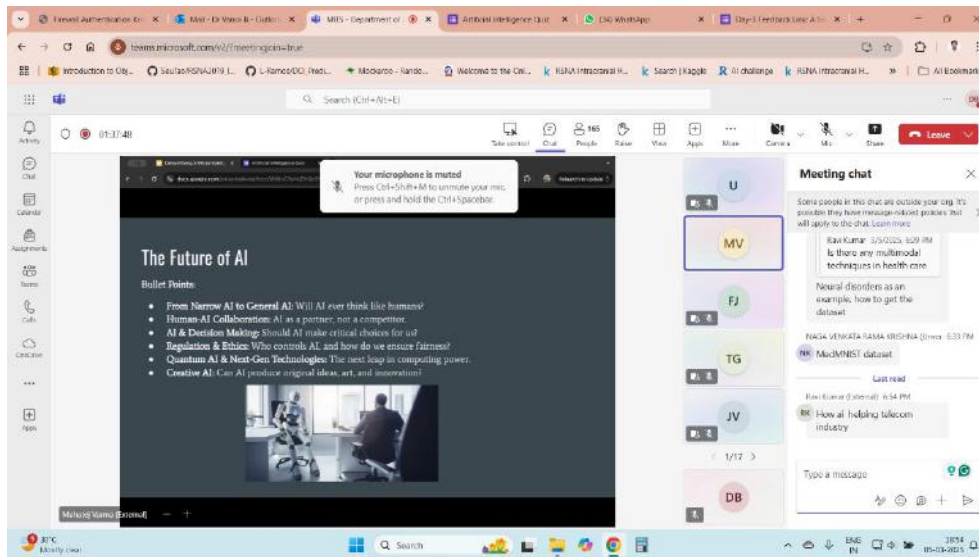
**Day 3: 05-March-2025 (Wednesday) | Time: 6:00 PM – 7:30 PM**

**Resource Person:** Mr. Mahatej Varma Vatsavayi, Software Development Engineer, Amazon India

**Topic:** Demystifying Artificial Intelligence

**Mode:** Online (MS Teams)





Mr. Mahatej Varma introduced participants to the fundamentals of AI, explaining advanced data structures, system optimization for AI, and real-world AI applications. His interactive coding demonstration showcased AI-powered automation in cloud-based environments.

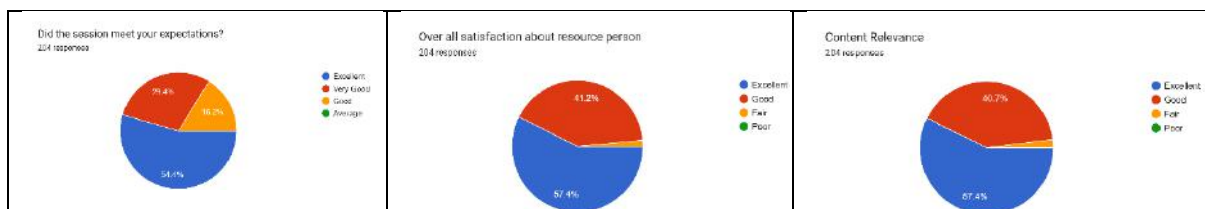
### Key Discussion Points:

- Fundamentals of AI: Understanding AI, ML, and deep learning.
- Advanced data structures for AI applications.
- AI optimization techniques for cloud computing.
- Best practices in AI-powered automation.
- Practical use cases of AI in industry.

### Presentation Highlights:

- Hands-on coding demonstration using Python and AI frameworks.
- Explained AI in software engineering and cloud infrastructure.
- Showcased real-world AI solutions in e-commerce and logistics.
- Q&A session on career opportunities in AI and data engineering.

### Feedback on Day-3 session:



**Day 4:** 06-March-2025 (Thursday) | Time: 6:00 PM – 7:30 PM

**Resource Person:** Dr. S. Saroja, Assistant Professor, NIT Trichy

**Topic:** Role of Artificial Intelligence in Enabling the Electric Vehicle Revolution

**Mode:** Online (MS Teams)



**AI-Powered Solutions for Addressing Challenges**

- Range anxiety** - AI can optimize route planning and provide real-time estimates of remaining range, considering factors like traffic, weather, and terrain, to alleviate range anxiety for EV drivers.
- Charging Infrastructure** - AI can assist in finding available charging stations, predicting charging times, and optimizing charging schedules to enhance the convenience.
- Battery Management** - AI algorithms can monitor and manage battery health, extending battery life, and ensuring optimal performance over time.
- Supply Chain Issues** - The supply chain for critical components like batteries, semiconductors, and rare-earth metals can be vulnerable to disruptions, affecting production and availability. This can be tackled by the assistance of AI techniques.
- Grid Integration** - AI can coordinate the charging and discharging of EVs to support grid stability and reduce the strain on the electrical grid during peak demand periods.

**Prediction: Feed the collected data into the trained AI model, and it will output the predicted remaining range.**

**Sample Dataset:**

SoC (%)	Speed (mph)	Temperature (°C)	Elevation Change (meters)	Previous Range (miles)	Range Achieved (miles)
80	45	25	0	90	90
70	55	30	50	80	70
90	40	20	-10	100	110
75	60	35	20	100	85
85	50	28	10	60	95

**Solution Steps:**

Dr. Saroja discussed the integration of AI in electric vehicles (EVs), predictive maintenance using AI, and AI-driven energy optimization. She elaborated on smart mobility solutions and advancements in AI for sustainable transportation.

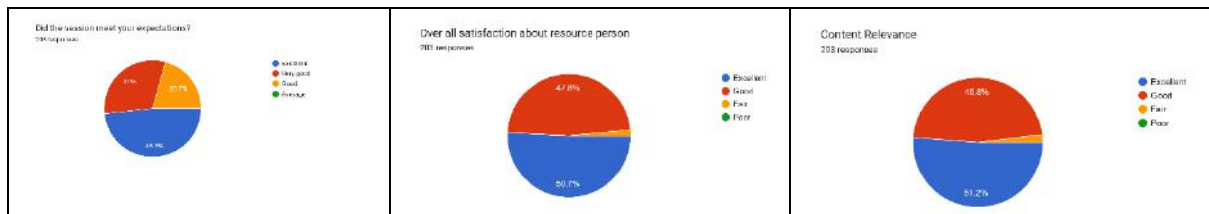
### Key Discussion Points:

- AI's role in electric vehicle (EV) advancements.
- Smart mobility solutions using AI-powered automation.
- Predictive maintenance and AI-driven diagnostics.
- Energy efficiency and AI-powered sustainability.
- Challenges and future trends in AI for EVs.

### Presentation Highlights:

- Explained how AI enhances battery life and EV efficiency.
- Showcased real-world AI models in vehicle diagnostics.
- Discussed the impact of AI on smart transportation.
- Q&A session on AI research in autonomous and electric vehicles.

## Feedback on Day-4 session:

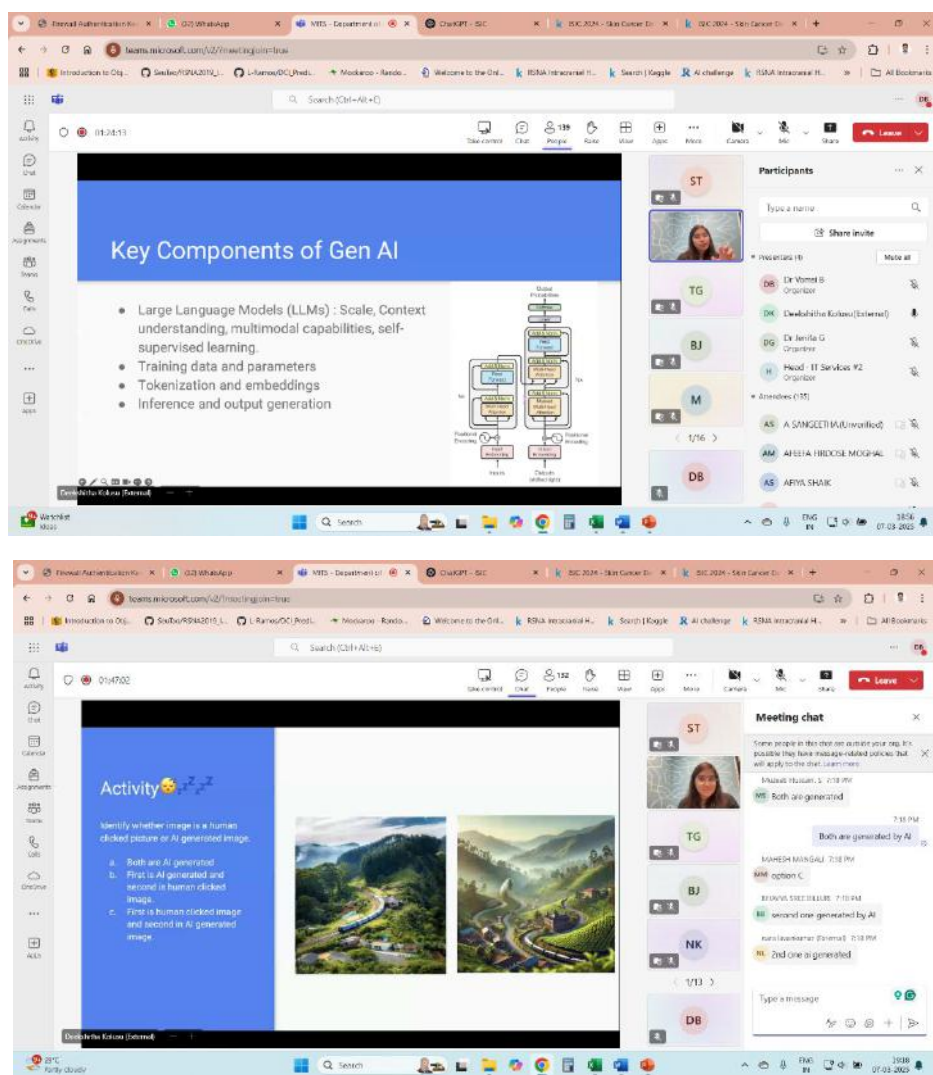


**Day 5: 07-March-2025 (Friday) | Time: 6:00 PM – 7:30 PM**

**Resource Person:** Ms. Deekshitha Kolusu, Data Engineer, IBM Bangalore

**Topic:** Generative AI

**Mode:** Online (MS Teams)



Ms. Deekshitha explored Generative AI applications, deep learning methodologies, and AI-powered content generation. She demonstrated the real-world applications of Generative AI in business, creative industries, and automation.

### Key Discussion Points:

- What is Generative AI? Overview of deep learning in content creation.
- AI in text, image, and video generation.
- Applications of Generative AI in business and research.

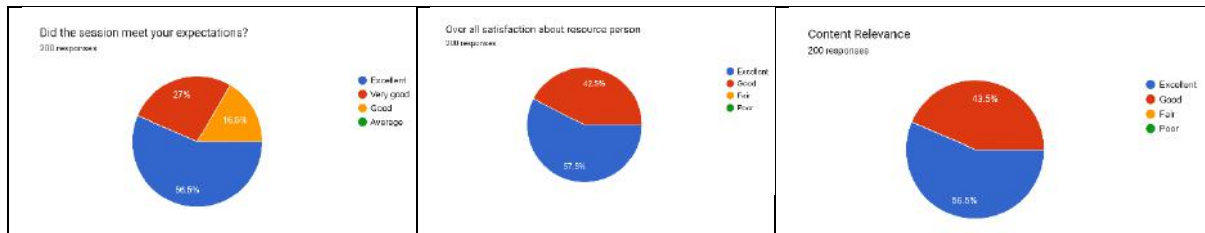


- The ethics of AI-generated content.
- Latest developments in Generative AI models.

### Presentation Highlights:

- Live demonstration of Generative AI tools for text and image generation.
- Explained AI-powered design, content creation, and automation.
- Discussed risks and safeguards in Generative AI.
- Q&A session on real-world applications of AI in media and marketing.

### Feedback on Day-5 session:

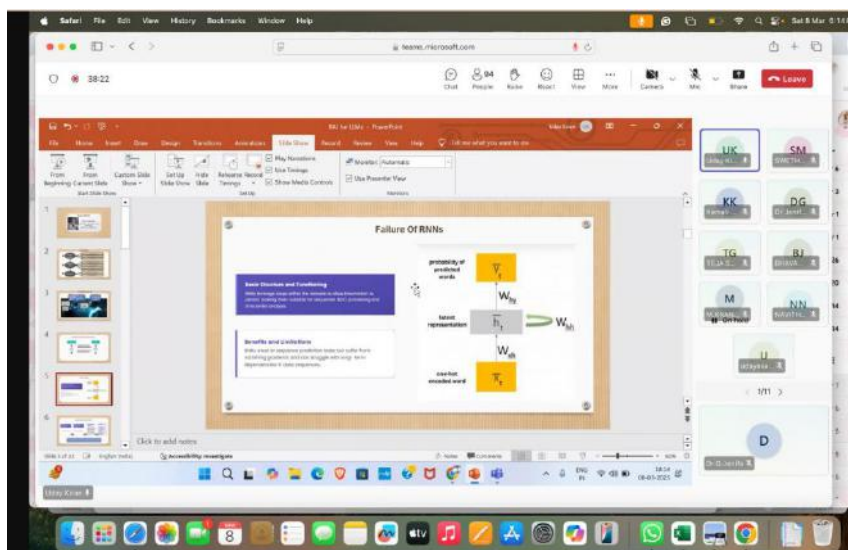


**Day 6:** 08-March-2025 (Saturday) | Time: 6:00 PM – 7:30 PM

**Resource Person:** Mr. Uday Kiran Appalaneeni, Responsible AI Engineer, Accenture

**Topic:** Responsible AI for LLMs

**Mode:** Online (MS Teams)



Mr. Uday Kiran focused on ethical AI practices, adversarial attacks in AI models, and security concerns in AI deployment. He highlighted Responsible AI frameworks, fairness in AI, and bias mitigation strategies.

### Key Discussion Points:

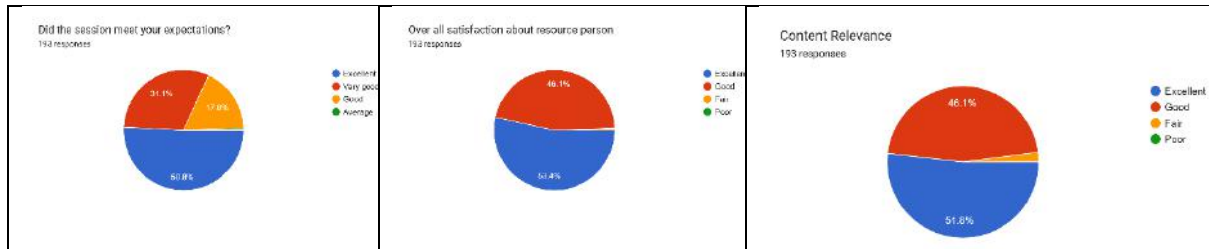
- What is Responsible AI? Ensuring fairness, transparency, and accountability.
- Addressing AI biases and adversarial attacks.
- Ensuring security and ethical considerations in AI.
- AI regulations and compliance frameworks.

- The future of Responsible AI in Large Language Models (LLMs).

### Presentation Highlights:

- Showcased AI security measures against misinformation and adversarial attacks.
- Demonstrated techniques for bias mitigation in AI systems.
- Discussed real-world case studies on ethical AI practices.
- Q&A session on ensuring responsible AI adoption in industries.

### Feedback on Day-6 session:



### Valedictory Session:

The **valedictory address** was delivered by **Dr. K. Chokkanathan, HoD/CSE-AI**, followed by a **vote of thanks** by **Dr. G. Jenifa, Assistant Professor, Dept. of CSE (AI)**, extending gratitude to **the management, principal, faculty, participants, and resource persons** for making this FDP a **grand success**.

### FDP Outcomes:

- Participants gained in-depth knowledge of AI advancements, industry applications, and best practices.
- Hands-on demonstrations enhanced their practical understanding of AI tools and frameworks.
- Faculty and researchers were equipped with new methodologies to integrate AI concepts into their curriculum and research.
- Participants explored emerging AI technologies, including Generative AI, Responsible AI, and AI-driven business intelligence.
- The FDP facilitated networking and collaboration between academia and industry professionals.

### Mapping Sustainable Development Goals (SDGs):

1. **SDG 4 - Quality Education:** Enhancing AI knowledge among faculty, researchers, and students.
2. **SDG 7 - Affordable and Clean Energy:** AI-driven solutions in Electric Vehicles (EVs) and energy optimization.
3. **SDG 11 - Sustainable Cities and Communities:** AI applications in EVs, transportation, and urban planning.
4. **SDG 8 - Decent Work and Economic Growth:** AI-powered automation, business intelligence, and job creation.
5. **SDG 12 - Responsible Consumption and Production** → AI-powered optimization of resources and efficiency improvements.