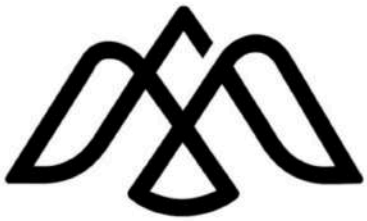
MALLA REDDY COLLEGE OF ENGINEERING
(Approved by AICTE-New Delhi, Affiliated to JNTUH-Hyderabad)
Recognized under Section 2(f) & 12(B) of the UGC Act 1956,
An ISO 9001:2015 Certified Institution.
Maisammaguda, Dhullapally, post via Kompally, Secunderabad - 500100

A Report of Workshop on
"Empowering Students with Cutting-Edge Tech Skills and Professional Standards (Gen AI, ML, Power BI)"

Organized by
Department of CSE (AI & ML)
In Association with **Plexus Club**



Date : 11 -10 -2025
Venue : 001 Lab – Block B,TPO Cell - 002, 003 Lab

Content

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ABOUT THE INSTITUTE

MRCE

Malla Reddy College of Engineering (Formerly CM Engineering College) has been established under the aegis of the Malla Reddy Group of institutions in the year 2005, a majestic empire, founded by chairman Sri. Ch. Malla Reddy. He has been in the field of education for the last 22 years with the intention of spearheading quality education among children from the school level itself.

Since the beginning Mr. Malla Reddy has endeavoured to ensure quality education and carved a niche for himself by managing this group of institutions. Malla Reddy College of Engineering has been laid upon a very strong foundation and has ever since been excelling in every aspect. The bricks of this able institute are certainly the adept management, the experienced faculty, the selfless non-teaching staff and of course the students.

INSTITUTION VISION:

To emerge as a Center of Excellence for producing professionals who shall be the leaders in technology innovation, entrepreneurship, management and in turn contribute for advancement of society and human kind.

INSTITUTION MISSION:

- To provide an environment of learning in emerging technologies.
- To nurture a state of art teaching learning process and R&D culture.
- To foster networking with Alumni, Industry, Institutes of repute and other stakeholders for effective interaction.
- To practice and promote high standards of ethical values through societal commitment.

VISION OF THE DEPARTMENT

- To teach excellence education for undergraduates in the field of Artificial Intelligence and Machine Learning in the technological-embedded domain and make professionals who help the better cause of society.

MISSION OF THE DEPARTMENT

- Impart demanding training to create knowledge through the state-of-the-art ideas and skills in Artificial Intelligence and Machine Learning.
- Facilitate the students to adapt to the rapidly changing technologies by providing cutting-edge laboratories and facilities.
- Kick off the research and training, paying special attention to the essential skills of the subsequent generation's workforce.

ABOUT CSE (AI&ML) DEPARTMENT

ABOUT THE DEPARTMENT

The Department of Artificial Intelligence and Machine Learning (AI&ML) was founded in 2020 with the goal of providing high-quality higher education to as many students as possible and to satisfy the enormous need for highly trained professionals in the industry. The Department of AI&ML offers a B. Tech program in Computer Science and Engineering (Artificial Intelligence and Machine Learning). The curriculum is created to give students a firm foundation in AI and ML principles and concepts as well as practical experience in handling situations from the real world. Programming languages, computer architecture, machine learning, natural language processing, artificial intelligence, and deep learning are some of the department's core subjects. Students are continuously trained with an attitude of excellence to overcome automation challenges across all industries and provide new context and background to improve the agile process with the assistance of great laboratory facilities and well-qualified faculty members. Because of the program's interdisciplinary nature, it draws on knowledge and coursework from many different disciplines, including computer science, mathematics, and statistics. Students will have the chance to take part in research projects in addition to the required courses, both inside the department and with other departments and organizations. Students who complete the B.Tech. programme in Computer Science and Engineering (Artificial Intelligence and Machine Learning) will be well-versed in the theories and methods of AI & ML and will be qualified for employment in a range of fields and positions, including data analysis, software development, and research.

PROGRAM OUTCOMES (POs)

Engineering Graduates will be able to:

PO.1	**Engineering Knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO.2	**Problem Analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
PO.3	**Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
PO.4	**Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
PO.5	**Engineering Tool Usage.** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
PO.6	**The Engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
PO.7	**Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO.8	**Individual and Collaborative Teamwork.:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO.9	**Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive **clear** instructions.
PO.10	**Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
PO.11	**Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAM SPECIFIC OUTCOMES (PSO)

PSO1 - An ability to apply unconventional fundamental AI technologies, to citation information and deliver knowledge to intelligent decision-making systems.

PSO2 - An ability to grow an ethical and contemplative approach to the machine learning tools that can address complex reasoning tasks for the enhancement of society.

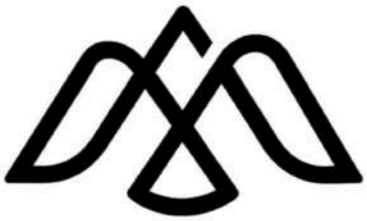
PROGRAM EDUCATIONAL OBJECTIVES (PEO)

PEO1 – Graduates will obtain robust knowledge in the field of artificial intelligence and machine learning theory and principles for classifying, examining and solving problems.

PEO2 – Graduates will upgrade skill to work efficiently within a squad and apply suitable practices within a skilled and ethical framework for societal needs.

PEO3 – Graduates will pursue higher education and accomplish sustainable growth through lifelong learning and research.

ABOUT PLEXUS



The Plexus Club envisions a dynamic, inclusive, and empowering community that nurtures the holistic development of every student. Rooted in the belief that education extends beyond the classroom, the club is committed to offering a comprehensive platform where students can explore a broad spectrum of interests — spanning technical, non-technical, creative, and athletic pursuits.

Our mission is to cultivate a vibrant environment where students are encouraged to step out of their comfort zones, unlock their potential, and actively engage in diverse opportunities. Whether it's through hands-on technical workshops, coding marathons, public speaking events, artistic showcases, sports tournaments, or leadership forums, Plexus is designed to be a space where talents are discovered, passions are pursued, and ideas come to life.

By fostering collaboration, innovation, and critical thinking, the club aims to equip students with essential skills that prepare them for both professional success and personal fulfilment. Emphasis is placed not only on academic and career-oriented growth but also on emotional intelligence, creative expression, and teamwork — qualities that define well-rounded individuals in today's interconnected world.

Ultimately, the Plexus Club aspires to be more than just an extracurricular space; it seeks to be a transformative journey. Through meaningful experiences, lasting friendships, and impactful projects, our members emerge as confident, compassionate, and competent contributors to their communities and industries.

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PROPOSAL TO PRINCIPAL

Title: A workshop for Cutting-Edge Tech Skills on Industry Expectations for Students

Organized by: CSE(AIML), MRCE

Date: 11-10-2025

Time : 10:00AM to 4:00pm

Venue: Seminar Hall

Target Audience: IV-year Students

About the Workshop:

This workshop aims to enlighten academic professionals with **Generative AI (GenAI), Power BI, and Machine Learning (ML)** which are transformative technologies that are reshaping how data is used for innovation and decision-making. We are glad to inform you that this **Workshop** is being conducted **in collaboration with Plexus Club** .

This workshop aims to enhance students' practical knowledge and skills through interactive sessions, hands-on activities, and expert guidance.

Generative AI (GenAI) is a type of artificial intelligence designed to create new content such as text, images, music, or code by learning patterns from existing data. It utilizes techniques like deep learning and neural networks to generate outputs that are often indistinguishable from human-created content.

Power BI is a Microsoft-powered business intelligence tool that helps transform raw data into interactive dashboards and actionable insights. It allow users to connect to various data sources, clean and shape data and visualize it using charts, graphs and reports all with minimal coding.

Machine learning is a branch of Artificial Intelligence that focuses on developing models and algorithms that let computers learn from data without being explicitly programmed for every task. In simple words, ML teaches the

systems to think and understand like humans by learning from the data.

Objectives:

- To understand the fundamental concepts and applications of Generative AI, Power BI, and Machine Learning.
- To learn how data-driven technologies enhance automation, prediction, and decision-making.
- To explore tools and techniques for data visualization and intelligent analysis.
- To develop skills in integrating AI and analytics for real-world problem-solving and innovation.

Target Participants:

This workshop is designed for **students (Advance Learners)** to gain foundational knowledge and practical insights into **Generative AI, Power BI, and Machine Learning**. It aims to help learners understand how these technologies work, how they are applied in real-world scenarios, and how they can be used to enhance **data analysis, creativity, and problem-solving skills** for future academic and professional growth.

Expected Outcomes:

- Students will understand the core principles and applications of Generative AI, Power BI, and Machine Learning.
- Students will be able to analyse and visualize data using Power BI for informed decision-making.
- Students will gain basic skills in applying ML techniques for prediction and automation.
- Students will appreciate how AI-driven tools can enhance creativity, innovation, and data-driven problem-solving.

Registration Details:

- Registration fees : 100/- per student.
- Limited Seats on First-Come-First-Serve Basis.

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PERMISSION LETTER FROM PRINCIPAL

To
The Principal,
Malla Reddy College of Engineering,
Maisammaguda , Hyderabad.

Sir,

Sub: Permission to conduct a workshop on **"Gen AI, Power BI, and Machine Learning"**

With due respect, this is to inform you that the Department of Computer Science Engineering (AI & ML), in association with the PLEXUS Club, is organizing a one-day workshop on "Gen AI, Power BI, and Machine Learning" on 11th October 2025 at the Seminar Hall, MRCE.

The session aims to enhance students' practical knowledge and exposure to emerging technologies like **Generative AI, Data Visualization using Power BI, and Machine Learning applications**. Expert trainers and industry professionals will be delivering sessions in three dedicated tracks.

We kindly request your permission to organize this workshop and use the Seminar Hall for the event.

Thanking you,

Yours sincerely,
Dr. Anantha Raman G R
Head of the Department, CSE (AI & ML)
Malla Reddy College of Engineering

POSTER LAUNCH

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PATRON	CONVENER	CO-CONVENER	FACULTY COORDINATORS	STUDENT COORDINATORS
Dr. Maram Ashok Principal, MRCE	Dr. Anantha Raman GR Dean IQAC, HOD - CSE(AIML), MRCE	Mrs. K Sunanda Asst. Professor	Mrs. Mineesha Asst. Professor Mr. K Lokesh Asst. Professor	P. Druvika M. Amara Kumar Harsh RB P. Gunaranjan T. Yeshwanth

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ABOUT THE WORKSHOP

The **Department of Computer Science and Engineering (AI & ML)**, in association with the **PLEXUS Club**, organized an extensive **one-day workshop series** on **11th October 2025** at **Malla Reddy College of Engineering (MRCE)**. The event aimed to enhance students' technical proficiency in emerging technologies by offering three focused domains — **Generative AI, Power BI, and Machine Learning**. This initiative reflected the department's commitment to promoting experiential learning and preparing students for the rapidly advancing world of artificial intelligence and data analytics.

The event was graced by the presence of distinguished personalities, including **Dr. M. Ashok, Principal**, **Dr. Anantha Raman G R, Dean IQAC & Head of the Department**, **Dr. V. Vivekanandhan, Dean IIC & IIIC**, and **faculty convenors of the Plexus Club**, who motivated the students to actively participate and embrace innovation. The workshop sessions were conducted by expert industry professionals — **Mr. K. Vamsi Krishna (Generative AI)**, **Mr. Sunku Bala Bharathi (Power BI)**, and **Mr. Subham Kumar Das (Machine Learning)** — each bringing real-world expertise and hands-on experience to their respective domains.

The **Generative AI Workshop** introduced participants to the creative capabilities of AI, focusing on how large language models and generative tools are transforming industries through automation and innovation. Students explored prompt engineering, AI-assisted content generation, and real-time use cases that demonstrated the future potential of AI.

The **Power BI Workshop** trained students in data visualization and business intelligence using Microsoft Power BI. Participants learned to convert raw data into meaningful insights by creating interactive dashboards, using DAX formulas, and building professional reports. This session strengthened their ability to analyze and present data effectively for decision-making purposes.

The **Machine Learning Workshop** offered students a strong foundation in machine learning concepts, including supervised and unsupervised algorithms. Through hands-on coding exercises in Python, participants learned how to train, test, and evaluate models for real-world applications such as predictive analytics and classification tasks.

Throughout the day, the students engaged enthusiastically with each session, gaining valuable exposure to tools, techniques, and emerging industry practices. The resource persons encouraged questions and discussions, making the workshops highly interactive and knowledge-driven.

The event concluded with positive feedback from participants who appreciated the practical and industry-oriented approach of the sessions. Overall, the workshop series was a resounding success, providing students with a platform to develop essential skills in **Artificial Intelligence, Data Analytics, and Machine Learning**. It stood as a testament to MRCE's vision of fostering innovation, technical excellence, and future-ready professionals.

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REGISTRATIONS

Student List – Gen AI Workshop

S.No	Roll Number	Name	Section
1	22Q91A6619	Edunoori Naresh	CSM-4A
2	23Q91A6603	Shiva Charan	CSM-4A
3	23Q91A6606	Vadla Vikranth	CSM-4A
4	22Q91A6668	Aluguta Murali	CSM-4A
5	22Q91A6677	Bura Vyshnavi	CSM-4B
6	22Q91A6678	Chinna Chenna Reddy Gari Sai Mokshitha	CSM-4B
7	22Q91A6679	Chittoju Uma Maheshwari	CSM-4B
8	22Q91A6682	Deepika Ellulla	CSM-4B
9	22Q91A6687	Golla Abhigna	CSM-4B
10	22Q91A6688	Gireesh Kumar	CSM-4B
11	22Q91A6694	Juvvadi Abhinaya	CSM-4B
12	22Q91A6696	Kerelly Akshaya	CSM-4B
13	22Q91A6699	Medagani Amarakumar	CSM-4B
14	22Q91A66A0	Mohammad Amaan Fardheen	CSM-4B
15	22Q91A66A9	Padiloju Pavan	CSM-4B
16	22Q91A66B4	Pulasani Manish Reddy	CSM-4B
17	22Q91A66B5	Purushottam Rajpurohit	CSM-4B
18	22Q91A66B9	Veeranjaneyulu	CSM-4B
19	22Q91A66C8	Mohan Datta	CSM-4B

20	23Q95A6609	Manoj Kumar Reddy	CSM-4B
21	23Q95A6610	Mohammed Irfan Ulla Sharif	CSM-4B
22	23Q95A6614	Yerra Abhinav	CSM-4B
23	22Q91A66D0	A.Deepak Murali	CSM-4C
24	22Q91A66E2	Midhilesh Dontineni	CSM-4C
25	22Q91A66F1	Kankati Soumya	CSM-4C
26	22Q91A66G4	Mallishetti Vivek	CSM-4C
27	22Q91A66I7	Veerapuram Vivek Vardhan	CSM-4C
28	22Q91A66I0	Uday Yenugula	CSM-4C
29	22Q91A6606	B.Dayakar	CSM-4A
30	22Q91A6657	S.Avinash	CSM-4A
31	23Q91A6663	A.Sai Teja	CSM-3B
32	23Q91A6675	D.Trishanth	CSM-3B
33	23Q91A6689	K.Deekshitha	CSM-3B
34	23Q91A6644	N.Keshav	CSM-3A
35	23Q91A6607	B.Saketh	CSM-3A
36	23Q91A6611	D.Eshwar	CSM-3A
37	23Q91A6603	A.Sri Charan	CSM-3A
38	23Q91A6646	N.Madhav	CSM-3A
39	23Q91A6633	K.Kevin	CSM-3A
40	23Q91A6642	M.Mathew	CSM-3A
41	23Q91A6638	M.Jahnavi	CSM-3A
42	23Q91A6617	E. Nithiya	CSM-3A
43	23Q91A6622	G. Ramya	CSM-3A
44	23Q91A6699	P. Naveeth	CSM-3B
45	24Q95A6608	Y. Praveen	CSM-3B
46	23Q91A6695	M. Revanth	CSM-3B

47	23Q91A66B8	V. Satish	CSM-3B
48	23Q91A66B7	T. Bala Maneesh	CSM-3B
49	23Q91A66B2	S. Likith	CSM-3B
50	23Q91A66A9	G. Shiva Ram	CSM-3B
51	22Q91A6676	Kowshik Borapureddy	CSM-4B

Student List – Machine Learning Workshop

S.NO	ROLL NO	NAME	YEAR/SEC
1	22Q91A6601	A.Nitish Kumar	CSM 4A
2	22Q91A6611	Ankita Boddu	CSM 4A
3	22Q91A6647	Druvika Pantangi	CSM 4A
4	22Q91A66C9	Akhil Kumar Jha	CSM 4C
5	22Q91A66D4	Baddam Sneha	CSM 4C
6	22Q91A66E1	Dombale Ravikanth	CSM 4C
7	22Q91A66E3	D.Ashritha	CSM 4C
8	22Q91A66E4	Gajula Chareeth Kumar	CSM 4C
9	22Q91A66E5	G.Vijayasimha Reddy	CSM 4C
10	22Q91A66F3	Abhiram	CSM 4C
11	22Q91A66F8	Lande Aishwarya	CSM 4C
12	22Q91A66G3	Maheshwaram Navya	CSM 4C
13	22Q91A66G6	Md Rizwanuddin	CSM 4C
14	22Q91A66G7	Mp Venkata Sai Chaitanya	CSM 4C
15	22Q91A66H1	Nenavath Anju	CSM 4C
16	22Q91A66H2	P.Sai Rama Krishna	CSM 4C

17	22Q91A66H4	P.Akshay Kumar Reddy	CSM 4C
18	22Q91A66H5	Srinidhi Ponna	CSM 4C
19	22Q91A66I1	T.Akshaya	CSM 4C
20	22Q91A66I5	Thoutam Yashwanth	CSM 4C
21	22Q91A66I6	Uppala Thrinath	CSM 4C
22	23Q95A6616	G.Dinesh Kumar Reddy	CSM 4C
23	23Q95A6618	Lokesh	CSM 4C
24	23Q95A6620	Vojjala Chandra Shekar	CSM 4C
25	23Q91A6608	Chava Thavan Rohith	CSM 3A
26	23Q91A6610	D.S.K Rahul Kumar	CSM 3A
27	23Q91A6627	Jayesh Kadam	CSM 3A
28	23Q91A6640	Marikanti Nitish	CSM 3A
29	23Q91A6641	Maruge Shrish	CSM 3A
30	23Q91A6658	Thapa Laxman	CSM 3A
31	23Q91A66C5	A.Satya Saketh	CSM 3C
32	23Q91A66C6	B.Chandu	CSM 3C
33	23Q91A66E5	G.Vivek	CSM 3C
34	23Q91A66F4	M.Nagamani	CSM 3C

Student List – Power BI Workshop

S.NO	ROLL NO	NAME	YEAR/SEC
1	22Q91A6615	CHIDURALA AARTHI	CSM 4A
2	22Q91A6645	NAREDDY POOJITHA	CSM 4A
3	23Q91A6637	MAILARAM SAIVARDHAN	CSM 3A
4	22Q91A6666	AKSHEETHA R	CSM 4B
5	22Q91A6680	DASARI KALYAN	CSM 4B
6	22Q91A6691	HARSH R BAGTHAIRA	CSM 4B
7	22Q91A6698	MD MUBIN	CSM 4B
8	22Q91A66B0	PALLE RAMYASRI	CSM 4B
9	22Q91A66B8	RAVULA RATHNAVENI	CSM 4B
10	22Q91A66C6	THOTLA VYSHNAVI	CSM 4B
11	22Q91A66H0	PUNDRU SAHITH REDDY	CSM 4C
12	22Q91A66D1	MEGHANA ALLE	CSM 4C
13	22Q91A66D2	ALLEM RITHVIK REDDY	CSM 4C
14	22Q91A66D5	BEECHUPALLY AKASH	CSM 4C
15	22Q91A66D7	BOJJA KARTHAVEERYA ARJUN	CSM 4C
16	22Q91A66D8	KRISHNA PRIYA CHIKALAMMETLA	CSM 4C
17	22Q91A66E0	ROHAN	CSM 4C
18	22Q91A66E8	KALLURI SAKETH REDDY	CSM 4C
19	22Q91A66F0	KANAKANALA KAVYA	CSM 4C
20	22Q91A66F5	KONDRU VIKAS	CSM 4C
21	22Q91A66G2	VAISHNAVI MADUNALA	CSM 4C
22	22Q91A66G5	LAHARI MANNRPALLI	CSM 4C

23	22Q91A66H0	NADIMETLA KEERTHANA	CSM 4C
24	22Q91A66H7	R PRAVEEN REDDY	CSM 4C
25	22Q91A66H8	SHAIK KHALEEL	CSM 4C
26	22Q91A66I0	SYEDRIZWAN	CSM 4C
27	22Q91A66I2	T JOHN DEVA KUMAR	CSM 4C
28	23Q95A6615	D.POOJA	CSM 4C
29	23Q95A6619	VANGARA SHANMUKESHWAR	CSM 4C
30	23Q91A66E3	G. AKSHITHA	CSM 3C
31	23Q91A66H5	R.RAM CHARAN	CSM 3C
32	23Q91A66F3	M.SRIMAYE	CSM 3C
33	23Q91A66F0	K. RAKSHITHA	CSM 3C
34	23Q91A66I0	T. VARSHINI	CSM 3C
35	24995A6609	A. SHIVANI	CSM 3C
36	22Q91A6640	MANI KULSHRESTHA	CSM 4A
37	23Q91A6682	I.KARTHIK	CSM 3B
38	24Q95A6607	S. SAMEER	CSM 3B
39	23Q91A6624	G. NANDHU	CSM 3A
40	23Q91A6637	M.SAI VARDHAN	CSM 3A
41	23Q91A66H6	R. DEEPIKA	CSM 3C
42	23Q91A66D5	VAMSHI	CSM 3C
43	23Q91A66E7	MANOGNA	CSM 3C
44	23Q91A6605	B. RUPEESH	CSM 3A
45	23Q91A6654	S. ARUN	CSM 3A
46	23Q95A6666	B. HARSHA VARDHAN	CSM 3B
47	24Q91A6606	CH. JONATHAN	CSM 3B
48	23Q91A6662	ANURAG REDDY	CSM 3B

49	23Q91A66B0	SHAHID AFRIDHI	CSM 3B
50	23Q91A6673	CH. PAVAN REDDY	CSM 3B
51	23Q91A6664	ANANTHARAM THARUN	CSM 3B
52	23Q91A6601	A. PALLAVI	**CSM 3A**
53	23Q91A6621	GANJI SOWMYA	**CSM 3A**
54	24Q95A6602	K. MANASA	**CSM 3A**
55	22Q91A6641	MOHAMMAD ALI PASHA	**CSM 4A**

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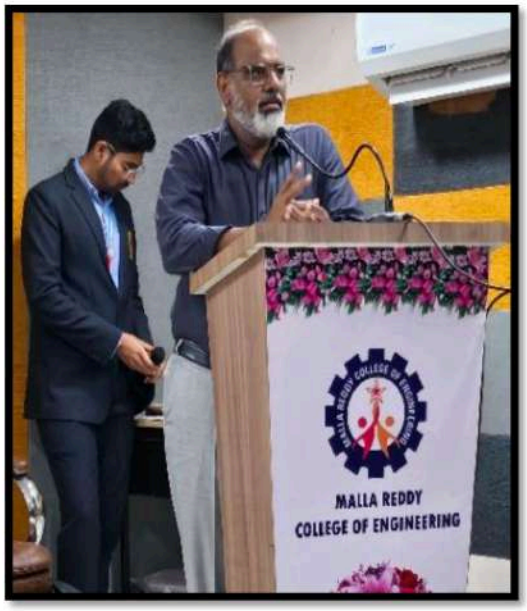
Workshop– AIM, PURPOSE AND IMPORTANCE



The **Department of Computer Science Engineering (AI & ML)**, in association with the **PLEXUS Club**, organized a comprehensive workshop on **"Gen AI, Power BI, and Machine Learning"** with the primary aim of equipping students with the latest technological advancements and practical insights into the world of Artificial Intelligence and Data Analytics. In the present era of digital transformation, the integration of AI into every sector—ranging from business and healthcare to education and governance—has revolutionized problem-solving and innovation. Recognizing this growing importance, the workshop was designed to bridge the gap between academic knowledge and industrial applications, enabling students to explore the immense potential of intelligent systems and data-driven decision-making processes.

The workshop aimed to provide students with a strong foundation in three crucial domains—**Generative AI**, **Machine Learning**, and **Power BI**—each contributing uniquely to shaping the future of technology. Through the Generative AI track, students explored the creative side of artificial intelligence, learning how AI models can generate text, images, and ideas, thereby fostering innovation and design thinking. The Machine Learning track focused on intelligent automation and predictive modeling, helping students understand how data patterns can be used to make informed decisions and optimize real-world systems. The Power BI sessions emphasized the importance of data visualization and business intelligence, enabling participants to transform raw data into meaningful insights and interactive dashboards.

The purpose of organizing this workshop was not only to enhance students' technical expertise but also to develop their analytical mindset, problem-solving abilities, and collaborative learning skills. It served as a platform for students to interact with industry professionals and experienced trainers, gaining exposure to real-world challenges and practical solutions. Furthermore, the event encouraged interdisciplinary learning, bridging the gap between computer science concepts and their implementation in business, industry, and research environments. By participating in this

workshop, students gained a holistic understanding of how AI and data technologies are reshaping industries, inspiring them to pursue innovation-driven careers in Artificial Intelligence, Machine Learning, and Data Science. Ultimately, the workshop aimed to nurture curiosity, creativity, and competence among young engineers, preparing them to become future-ready professionals capable of driving technological advancement and contributing meaningfully to the digital transformation of society.

Target Audience: Undergraduate students from Computer Science- AI & ML.

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Inauguration

The **Department of Computer Science Engineering (AI & ML)**, in association with the **PLEXUS Club**, organized an insightful one-day **Workshop on "Gen AI, Power BI, and Machine Learning"** on **11th October 2025** in the **Seminar Hall, Malla Reddy College of Engineering**. The event commenced with a formal inaugural ceremony graced by esteemed dignitaries and faculty members. The workshop was inaugurated by **Dr. M. Ashok**, Principal, **Malla Reddy College of Engineering**, who emphasized the importance of integrating Artificial Intelligence and Data Analytics into engineering education to prepare students for the rapidly evolving digital landscape.

The ceremony was further adorned by the presence of **Dr. Anantha Raman G. R**, Head of the Department and Convener, who addressed the gathering and highlighted the department's continuous efforts in organizing technical workshops and innovation-driven programs that bridge the gap between academia and industry. He encouraged students to actively participate and utilize such opportunities to gain hands-on exposure to next-generation technologies.

Dr. V. Vivekanandhan, Dean – IIC & IIIC, delivered a motivational address focusing on the role of innovation, incubation, and industry collaboration in shaping students into competent professionals and entrepreneurs. He appreciated the initiative taken by the department and stressed the significance of developing AI-oriented thinking to address real-world challenges.

The event also witnessed the participation of distinguished **resource persons and trainers** who shared their expertise across the three specialized tracks—**Generative AI, Machine Learning, and Power BI**. Each expert provided valuable insights into their respective domains, guiding students through interactive sessions and live demonstrations that enhanced conceptual clarity and technical understanding.

The inaugural session concluded with a vote of thanks proposed by **Mrs. K. Sunanda**, Co-Convener and Faculty

Coordinator, expressing gratitude to the management, principal, deans, faculty members, and student coordinators for their immense support in making the event possible. The workshop officially commenced thereafter, marking the beginning of a day filled with learning, innovation, and collaboration. The inauguration set a vibrant tone for the event, inspiring students to explore the limitless potential of Artificial Intelligence and data-driven technologies in shaping a smarter future.

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Summary of Generative AI

The **Department of Computer Science Engineering (AI & ML)**, in association with the **PLEXUS Club**, organized an intensive and insightful workshop on **Generative Artificial Intelligence (Gen AI)** as part of the *"Master Gen-AI, Power BI, and Machine Learning"* series on **11th October 2025** at **Malla Reddy College of Engineering (MRCE)**. The session was conducted by **Mr. Syam Sagar Kumar Yarasani**, Founder of **DataTeach AI**, a renowned expert in Artificial Intelligence and emerging technologies.

The workshop aimed to introduce students to the rapidly evolving domain of Generative AI and its applications in the modern digital world. **Mr. Syam Sagar Kumar** began by explaining the fundamentals of **Artificial Intelligence** and how Gen AI differs from traditional machine learning systems through its ability to create original and human-like content. Participants were introduced to key concepts such as **Large Language Models (LLMs)**, **Neural Networks**, and **Transformer Architectures**, which form the backbone of tools like **ChatGPT**, **DALL·E**, and other advanced generative systems.

The session combined both theoretical insights and practical demonstrations. Students engaged in live examples that showcased the creative potential of AI in generating text, art, code, and multimedia outputs. The resource person emphasized the importance of **prompt engineering**, guiding students on how to effectively frame prompts to receive contextually relevant and high-quality results from AI models. He also discussed the workflow behind model training, fine-tuning, and deployment, enabling participants to understand how generative systems evolve through large-scale data learning.

A major highlight of the workshop was the discussion on **ethical AI practices** and **responsible innovation**. The participants learned about challenges like misinformation, data bias, and copyright issues, along with strategies to use AI tools responsibly in academic and professional contexts. The interactive nature of the session allowed students to raise questions, explore new ideas,

and gain clarity on the future scope of Generative AI in industries such as education, healthcare, design, and software development.

By the end of the workshop, students gained a strong conceptual foundation in Generative AI, along with the motivation to explore further in this rapidly growing field. The hands-on exposure to real-world tools and AI-driven creative applications enhanced their technical competence and curiosity toward innovation. The **Gen AI Workshop** thus served as a transformative learning experience—equipping participants with essential skills, awareness, and confidence to navigate the future of artificial intelligence-driven innovation.

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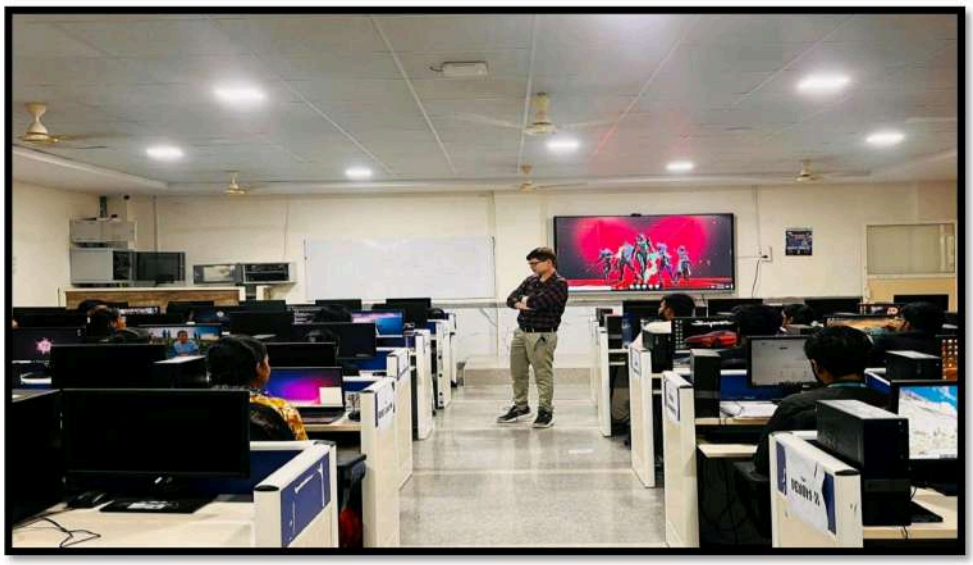
Summary of Power BI



In the evolving world of technology and business intelligence, understanding how to transform data into meaningful insights has become an essential skill for professionals and students alike. To equip learners with this crucial ability, the **Department of Computer Science and Engineering (AI & ML)**, in association with the **PLEXUS Club**, organized an insightful and hands-on **Power BI Workshop** on **11th October 2025** at **Malla Reddy College of Engineering (MRCE)**. The session was led by **Mr. Sunku Bala Bharath**, **Senior Data Analyst**, who shared his in-depth knowledge and industry expertise in data analytics and visualization.

The objective of the workshop was to introduce students to the world of **Business Intelligence (BI)** and train them in using **Microsoft Power BI** — one of the most powerful tools for data analysis, reporting, and visualization. The session began with a clear explanation of the importance of BI in modern organizations, focusing on how data-driven decision-making enables businesses to achieve efficiency and growth.

Participants were guided through the complete workflow of Power BI, including **data importing, cleaning, modeling, and visualization**. The resource person demonstrated how raw data from multiple sources can be transformed into interactive dashboards and analytical reports. Students actively engaged in hands-on exercises that involved building customized dashboards, creating charts, and exploring the features of **Power Query Editor** and **DAX (Data Analysis Expressions)** for performing advanced calculations.

Throughout the session, **Mr. Sunku Bala Bharathi** emphasized the art of **data storytelling** — how to present data insights in a compelling and understandable way. He explained how professionals can use Power BI to identify trends, forecast outcomes, and

make informed business decisions. The workshop also covered the process of publishing and sharing reports through **Power BI Service**, highlighting the importance of collaboration in business analytics.

The workshop provided students with valuable exposure to real-time analytical practices used in the corporate world. It strengthened their understanding of **data visualization, dashboard creation, and analytical reporting**, bridging the gap between theoretical learning and industry application. The participants appreciated the practical approach of the workshop, which enabled them to grasp complex BI concepts in a simplified and engaging manner.

In conclusion, the **Power BI Workshop** proved to be an enriching learning experience that empowered students with essential analytical and visualization skills. It fostered a deeper understanding of how data can drive innovation and strategic decision-making in today's data-centric environment. The session truly reflected MRCE's commitment to promoting experiential learning and preparing students for the challenges of the digital future.

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Summary of Machine Learning

In today's rapidly evolving technological landscape, **Machine Learning (ML)** stands at the forefront of innovation, driving advancements in automation, predictive analytics, and artificial intelligence. To equip students with practical knowledge and skills in this transformative field, the **Department of Computer Science and Engineering (AI & ML)**, in association with the **PLEXUS Club**, organized a comprehensive **Machine Learning Workshop** on **11th October 2025** at **Malla Reddy College of Engineering (MRCE)**. The workshop was conducted by **Mr. Subham Kumar Das**, an experienced **Machine Learning Engineer**, who provided valuable insights into real-world applications of ML and its growing significance in modern technology.

The primary objective of the session was to introduce participants to the fundamentals of **Machine Learning concepts, algorithms, and model development techniques**. **Mr. Subham Kumar Das** began the workshop by explaining how machine learning enables systems to learn patterns from data and make intelligent predictions without explicit programming. He discussed the different types of learning paradigms — **Supervised, Unsupervised, and Reinforcement Learning** — and elaborated on how these techniques are applied to solve real-world challenges in industries like healthcare, finance, and e-commerce.

The session was highly interactive and focused on hands-on learning. Students gained practical exposure using **Python programming** and popular ML libraries such as **Scikit-learn** and **NumPy** to build and train basic predictive models. Through guided exercises, participants explored algorithms like **Linear Regression, Decision Trees, and K-Means Clustering**, learning how to preprocess data, select features, and evaluate model accuracy.

Mr. Subham Kumar Das emphasized the importance of data-driven decision-making and the growing demand for ML professionals in today's job market. He also showcased real-time examples of ML applications such as sentiment analysis, image

recognition, and recommendation systems, which helped students connect theoretical understanding with practical implementation.

By the end of the workshop, participants were able to grasp the complete lifecycle of a machine learning project — from data collection to model deployment. The workshop not only strengthened their technical skills but also inspired them to further explore the fields of **Artificial Intelligence and Deep Learning**.

Overall, the **Machine Learning Workshop** proved to be an engaging and impactful session that enhanced students' analytical thinking and problem-solving abilities. It reflected MRCE's commitment to fostering a culture of innovation and technical excellence, empowering students to excel in emerging technologies that define the future of intelligent systems.

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SAMPLE CERTIFICATES

MRCE
HYDERABAD

PLEXUS

Certificate
OF COMPLETION

This certificate is awarded to :

Hadapada Revana Siddappa

for actively participating in the "**POWER BI** " workshop organized by Department of CSE(Artificial Intelligence and Machine Learning), in association with PLEXUS Club
Malla Reddy College Of Engineering, on 11th October, 2025.

CO - CONVENER	CONVENER	PATRON
Mrs. K. Sunanda	Dr. Anantha Raman GR	Dr. Maram Ashok

MRCE
HYDERABAD

PLEXUS

Certificate
OF COMPLETION

This certificate is awarded to :

Mohammad Amaan Fardheen

for actively participating in the "**GENERATIVE AI** " workshop organized by Department of CSE(Artificial Intelligence and Machine Learning), in association with PLEXUS Club
Malla Reddy College Of Engineering, on 11th October, 2025.

CO - CONVENER	CONVENER	PATRON
Mrs. K. Sunanda	Dr. Anantha Raman GR	Dr. Maram Ashok

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PLEXUS

Certificate
OF COMPLETION

This certificate is awarded to :

Druvika Pantangi

for actively participating in the "**MACHINE LEARNING** " workshop organized by Department of CSE(Artificial Intelligence and Machine Learning), in association with PLEXUS Club
Malla Reddy College Of Engineering, on 11th October, 2025.

CO - CONVENER	CONVENER	PATRON
Mrs. K. Sunanda	Dr. Anantha Raman GR	Dr. Maram Ashok

CONCLUSION:

The **Department of Computer Science and Engineering (AI & ML)**, in association with the **PLEXUS Club**, successfully organized a one-day **Workshop Series on Generative AI, Power BI, and Machine Learning** on **11th October 2025** at **Malla Reddy College of Engineering (MRCE)**. The event aimed to bridge the gap between academic learning and industry practices by providing students with practical exposure to emerging technologies shaping the future of computing.

A total of **140 students** from various years of the CSE (AI & ML) department actively participated in the workshops, displaying great enthusiasm and curiosity throughout the sessions. The workshops were conducted by eminent industry professionals — **Mr. Syam Sagar** (Generative AI), **Mr. Sunku Bala Bharathi** (Power BI), and **Mr. Subham Kumar Das** (Machine Learning) — each of whom brought valuable expertise and real-world experience to their respective domains.

Each session was designed to provide participants with both conceptual clarity and hands-on experience. The **Generative AI Workshop** explored the creative capabilities of artificial intelligence, focusing on prompt engineering and AI-assisted innovation. The **Power BI Workshop** trained students in data visualization and analytics, enabling them to design interactive dashboards and generate insights from data. The **Machine Learning Workshop** provided a deep understanding of algorithms, data processing, and model building using Python, helping participants connect

theoretical knowledge with practical applications.

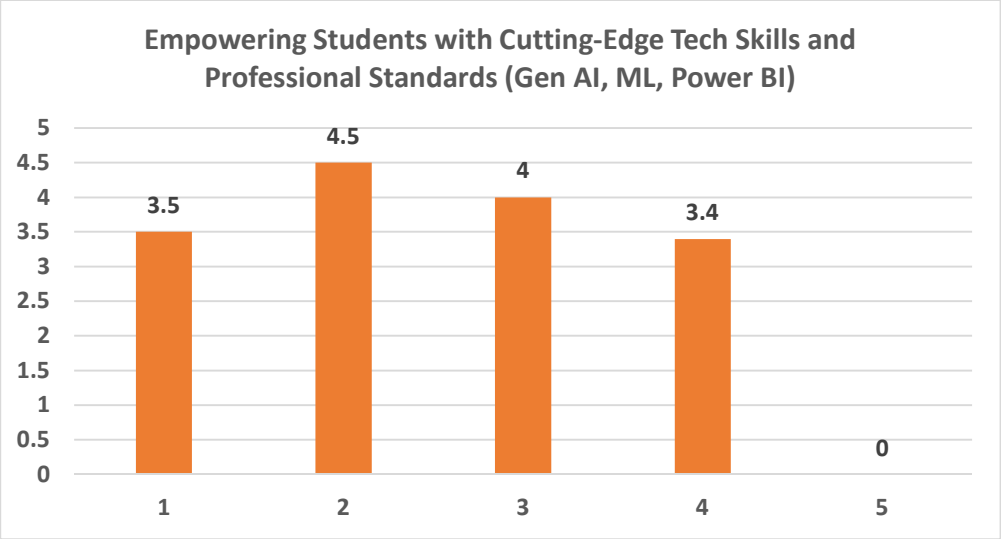
The event was held under the guidance and encouragement of **Dr. M. Ashok, Principal**, **Dr. Anantha Raman G R, Dean IQAC & Head of the Department**, and **Dr. V. Vivekanandhan, Dean IIC & IIIC**, whose support was instrumental in ensuring the success of the program. The dedicated efforts of the **Plexus Club Convenors** and faculty coordinators further contributed to the seamless organization of the workshops.

Feedback from the participants highlighted the sessions as informative, interactive, and career-enhancing. Students appreciated the opportunity to work directly with professionals and gain exposure to tools and technologies widely used in the industry.

In conclusion, the workshop series was a **resounding success**, with **140 students** benefitting from a day of experiential learning and technological exploration. It reinforced MRCE's vision of fostering innovation, nurturing technical excellence, and empowering students to become future-ready professionals in the fields of Artificial Intelligence, Data Analytics, and Machine Learning.

Overall Feedback on Empowering Students with Cutting-Edge Tech Skills and Professional Standards (Gen AI, ML, Power BI)

Sl. No	Questions	Average
1	How useful was the session in improving your skills in **Gen AI, ML, and Power BI**?	3.5
2	How clear and understandable were the explanations given by the trainer?	4.5
3	How helpful were the hands-on activities or demonstrations?	4
4	How relevant is this training to your academics and career goals?	3.4
5	What suggestions do you have to improve future training programs?	-



Workshop on
"Empowering Students with Cutting-Edge Tech Skills and Professional Standards (Gen AI, ML, Power BI)"

Successfully organized and completed with support of Chief Patron, Patrons, Convenor, Co-Convenors, Staff Coordinators and Student Coordinators

Signature

Patron/ Principal :

Convenor :

Co-Convenors :

Staff Coordinators :

Student Coordinators :

Taaha

Aarsha

THANK YOU