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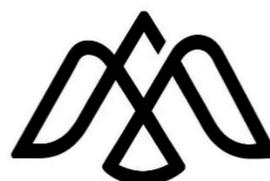Maisammaguda, Dhullapally, post via Kompally, Secunderabad - 500100

A Report of

National level Workshop

On

Recent Trends On Edge Technologies

Organized by:

Department of CSE (AI & ML)

18th December 2023

Target Audience: Students

In association with

Institution Innovation Council and Plexus Club

Date: 18-12-2023

Mode: Offline

Contents:

ABOUT THE INSTITUTION

MALLA REDDY BLOCK-A

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.

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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

The Department of CSE(Artificial Intelligence and Machine Learning) 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

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PERMISSION LETTER FROM PRINCIPAL

To   Date: 11/12/2023

The Principal

Malla Reddy College of Engineering

Maisammaguda, Hyderabad

Subject: Permission to Conduct a National Level Workshop on

"Recent Trends on Edge Technologies"

Respected Sir,

The Department of Computer Science and Engineering(AI & ML), in association with the concerned academic bodies/clubs, proposes to organize a **National Level Workshop** on **"Recent Trends on Edge Technologies"** for undergraduate students of the department.

The proposed programme aims to provide students with awareness and practical insights into emerging edge computing technologies, including edge AI, IoT–edge integration, real-time data processing, and low-latency computing systems. The programme will help students understand the significance of edge technologies in modern applications such as smart cities, healthcare systems, industrial automation, and autonomous technologies.

The objective of this National Level Workshop is to enhance students' technical knowledge, improve their understanding of next-generation computing paradigms, and encourage them to explore innovative project ideas and career opportunities in edge technologies.

Hence, we kindly request your permission to conduct the above-mentioned **Student Development Program** in the department premises / through online mode (as applicable).

Thanking you.

Yours sincerely,
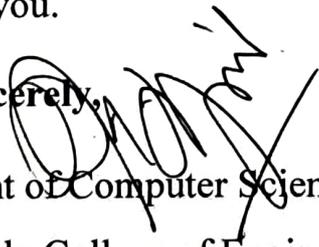
Department of Computer Science and Engineering

Malla Reddy College of Engineering

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ABOUT THE EVENT

The Department of Computer Science and Engineering (Artificial Intelligence & Machine Learning), Malla Reddy College of Engineering, successfully organized a **Student Development Programme** titled **"Recent Trends on Edge Technologies"** on **18th December 2023**.

The programme was designed to provide students with comprehensive knowledge and practical awareness of **emerging edge technologies**, including edge computing, IoT integration, AI at the edge, real-time data processing, and low-latency intelligent systems. The primary objective was to equip students with **future-ready technical skills** and prepare them for industry applications where data processing is performed closer to the source.

The programme witnessed active participation from undergraduate and postgraduate students across Engineering, Science, and allied disciplines. Eminent academicians and industry experts delivered insightful sessions emphasizing the **importance of edge technologies in smart systems, automation, healthcare, transportation, and Industry 4.0**. The sessions focused on bridging the gap between theoretical concepts and real-world applications.

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AIM, PURPOSE AND IMPORTANCE

National Level Workshop – *Recent Trends on Edge Technologies*

AIM

The aim of the National Level workshop on **"Recent Trends on Edge Technologies"** is to equip students with fundamental and advanced knowledge of edge computing concepts and emerging technologies. The programme focuses on enhancing students' understanding of real-time data processing, low-latency computing, and intelligent edge-based applications, thereby preparing them for future academic, research, and industry requirements.

PURPOSE

The purpose of this National Level Workshop is to provide a structured platform for students to:

- Understand the core concepts and architecture of **edge computing** and its role in modern computing systems.

- Gain awareness of recent trends such as **edge AI, IoT–edge integration, 5G-enabled edge networks, and distributed computing**.

- Explore real-world applications of edge technologies in domains like smart cities, healthcare, industrial automation, and autonomous systems.

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- Develop problem-solving skills by analyzing challenges related to latency, bandwidth, security, and data management at the edge.

- Encourage students to apply edge computing concepts in academic projects, research activities, and innovative solutions.

- Enhance career readiness by introducing emerging technologies relevant to industry demands.

IMPORTANCE

This National Level Workshop holds significant importance as it:

- Helps students stay updated with rapidly evolving **next-generation computing technologies**.

- Strengthens students' technical foundation in distributed and real-time computing systems.

- Encourages innovation, critical thinking, and interest in research-oriented learning.

- Prepares students for advanced studies and careers in fields such as cloud-edge systems, IoT, AI, and smart technologies.

- Bridges the gap between theoretical knowledge and practical applications through industry-relevant insights.

- Contributes to the holistic development of students by enhancing their technical competence and future readiness.

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Broucher

Summary

The National Level Workshop on **"Recent Trends on Edge Technologies"** was organized to provide students with an in-depth understanding of emerging edge computing concepts and their role in modern computing environments. The programme focused on introducing students to the fundamentals of edge computing and recent advancements that enable real-time data processing, low latency, and efficient utilization of network resources.

The sessions covered important topics such as edge AI, Internet of Things (IoT) integration with edge computing, 5G-enabled edge networks, and distributed computing architectures. Expert speakers explained the practical applications of edge technologies through real-world examples from domains including smart cities, healthcare systems, industrial automation, and autonomous technologies.

The programme encouraged interactive learning through discussions, demonstrations, and question-and-answer sessions, helping students bridge the gap between theoretical concepts and practical implementation. Students gained awareness of current industry trends, research opportunities, and career prospects related to edge technologies.

Overall, the National Level Workshop successfully enhanced students' technical knowledge and analytical skills, motivating them to explore innovative applications and project ideas using edge computing. The programme served as an effective platform for preparing students to meet future academic and industry challenges in next-generation computing technologies.

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Conclusion

The National Level Workshop on **"Recent Trends on Edge Technologies"** was successfully concluded, offering students a valuable blend of conceptual understanding and practical insights into emerging edge computing technologies. Throughout the programme, participants gained clarity on how edge technologies enable real-time data processing, low latency, and intelligent decision-making by bringing computation closer to data sources.

The sessions introduced students to key concepts such as edge AI, IoT–edge integration, 5G-enabled edge networks, and distributed computing frameworks. Expert speakers illustrated real-world applications of edge technologies in domains including smart cities, healthcare systems, industrial automation, and autonomous applications. Interactive discussions and examples helped students connect theoretical knowledge with practical implementation.

The programme significantly enhanced students' technical awareness and research orientation by encouraging them to explore edge-based solutions, innovative project ideas, and emerging career opportunities. Hands-on demonstrations, question-and-answer sessions, and peer interactions promoted active learning and critical thinking.

Overall, the SDP successfully achieved its objective of equipping students with essential knowledge of recent trends in edge technologies. The programme not only strengthened their technical foundation but also inspired them to pursue advanced learning, research, and innovation in next-generation computing technologies, preparing them for future academic and industry challenges.

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A National level Workshop on " Recent Trends on Edge Technologies" Successfully organized and completed with support of convenor, co-convenor, Organizers

Signature

Patron/ Principal   :

Convenor   :

Co-Convenors   :

Student Coordinators   :

Malla Reddy college of Engineering

feedback on National Level Workshop -Title: Workshop on " Recent Trends On Edge Technologies " on 18th Dec 2023

★ 5 = Excellent ★ 4 = Very Good ★ 3 = Good ★ 2 = Fair ★ 1 = Poor

s no	Regd no	Student Name	Dept	Sec	Year	The workshop met its stated objectives.	The speakers demonstrated deep expertise in Edge Technologies.	The practical demonstrations were easy to follow.	I would recommend this workshop to my peers.
1	21Q91A6633	M DHOSHEKA			III	4	5	3	5
2	21Q91A6634	MANGALI SRIKANTH			III	3	4	4	4
3	21Q91A6635	MADALA NAGA BABU			III	2	3	4	5
4	21Q91A6636	MANDAVA HEMALATHA			III	5	3	2	4
5	21Q91A6637	MANGA POOJA			III	3	3	4	3
6	21Q91A66B0	SIDDAM AKSHITHA			III	2	1	4	3
7	21Q91A66B1	SINGAREDDY SRINIVASA REDDY			III	3	2	4	5
8	21Q91A66B2	SIRIGINEEDI DEEPANKAR			III	4	2	3	4
9	21Q91A66B3	SIRIPURAPU RUCHITHA			III	5	4	4	3
10	21Q91A66B5	THATIKONDA BHAVANI			III	4	3	5	5
11	22Q91A66F7	KOTHAPALLI SINDHU			II	5	5	4	3
12	22Q91A66F8	LANDE AISHWARYA			II	3	4	3	4
13	22Q91A66F9	LAVUDI PAVAN KALYAN			II	4	3	5	4
14	22Q91A66G0	MADAKANTI SONU			II	3	2	1	5
15	22Q91A66G1	MADAVI TEJA			II	4	5	3	4
16	22Q91A66G2	MADUNALA VAISHNAVI			II	5	5	4	5
17	22Q91A66B1	PANDUGA HAREESHWER REDDY			II	3	5	2	4
18	22Q91A66B2	PENTE TRISHANK			II	4	4	4	5
19	22Q91A66B3	PERUMALA GUNARANJAN			II	5	5	4	4
20	22Q91A66B4	PULASANI MANISH REDDY			II	5	4	5	3
21	22Q91A6644	NARA SRIHARSHITHA			II	5	4	3	2
22	22Q91A6645	NAREDDY POOJITHA			II	4	4	3	3
23	22Q91A6646	PALTHIYA SHIRISHA			II	5	3	5	2
24	22Q91A6647	PANTANGI DRUVIKA			II	5	5	5	4
25	22Q91A6648	PARNANDI VISHNU VARDHAN			II	4	5	4	4

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ATTENDANCE SHEET

Title: Workshop on " Recent Trends On Edge Technologies"
Organise by: CSE (AIML) and in association with IIC and PLEXUS
Date:18th Dec 2023   Start Time: 10.10AM, End time: 3.30 PM
Venue: MRCE Seminar Hall (Inauguration)   Sessions: B Block. 110 Lab
List of Students Participated in Workshop on **Recent Trends On Edge Technologies.**

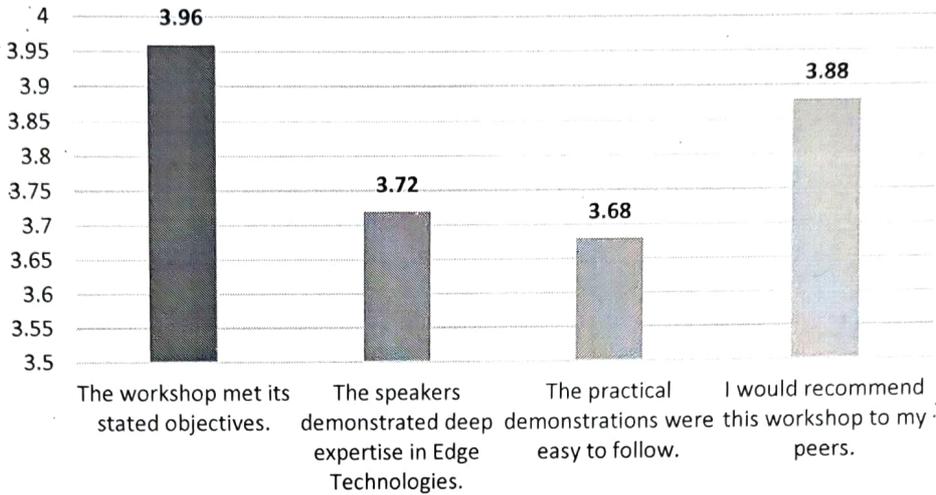| S.No		Name	Dept.	Year	Section	Signature
1	21Q91A6633	M DHOSHEKA	CSM	III	A	
2	21Q91A6634	MANGALI SRIKANTH	CSM	III	A	
3	21Q91A6635	MADALA NAGA BABU	CSM	III	A	
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7	21Q91A66B1	SINGAREDDY SRINIVASA REDDY	CSM	III	B	
8	21Q91A66B2	SIRIGINEEDI DEEPANKAR	CBM	III	B	
9	21Q91A66B3	SIRIPURAPU RUCHITHA	CSM	III	B	
10	21Q91A66B5	THATIKONDA BHAVANI	CSM	III	B	
11	22Q91A66F7	KOTHAPALLI SINDHU	CSM	II	B	
12	22Q91A66F8	LANDE AISHWARYA	CSM	II	C	
13	22Q91A66F9	LAVUDI PAVAN KALYAN	CSM	II	C	
14	22Q91A66G0	MADAKANTI SONU	CSM	II	C	
15	22Q91A66G1	MADAVI TEJA	CSM	II	C	
16	22Q91A66G2	MADUNALA VAISHNAVI	CSM	II	A	
17	22Q91A66B1	PANDUGA HAREESHWER REDDY	CSM	II	A	
18	22Q91A66B2	PENTE TRISHANK	CSM	II	A	
19	22Q91A66B3	PERUMALA GUNARANJAN	CSM	II	B	
20	22Q91A66B4	PULASANI MANISH REDDY	CSM	II	B	
21	22Q91A6644	NARA SRIHARSHITHA	CSM	II	C	
22	22Q91A6645	NAREDDY POOJITHA	CSM	II	C	
23	22Q91A6646	PALTHIYA SHIRISHA	CSM	II	A	
24	22Q91A6647	PANTANGI DRUVIKA	CSM	II	B	
25	22Q91A6648	PARNANDI VISHNU VARDHAN	CSM	II	A	

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Recent Trends On Edge Technologies

	Value
The workshop met its stated objectives.	3.96
The speakers demonstrated deep expertise in Edge Technologies.	3.72
The practical demonstrations were easy to follow.	3.68
I would recommend this workshop to my peers.	3.88

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A National level Workshop on " Recent Trends on Edge Technologies" Successfully organized and completed with support of convenor, co-convenor, Organizers

Signature

Patron/ Principal   :

Convenor   :

Co-Convenors   :

Student Coordinators   :

K. Ashma

THANK YOU!!