



PRAGATI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF INFORMATION TECHNOLOGY

Date: 05-03-2025

CIRCULAR

It is hereby informed to all the Students of III B.Tech. that Department of INFORMATION TECHNOLOGY organizing a Guest Lecture on “**LLM MODELS AND ITS IMPLICATIONS ON VARIOUS APPLICATIONS**” on 13-03-2025. This guest lecture will provide valuable insights into Large Language Models (LLMs) and their impact on various applications in technology and industry. All faculty members and students are encouraged to attend and make the most of this opportunity to enhance their knowledge.

Venue: Conference Hall & IT Laboratory

Mode: Online

Time: 01:00 PM to 03:00 PM


FACULTY CO-ORDINATOR





PRAGATI ENGINEERING COLLEGE

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DEPARTMENT OF INFORMATION TECHNOLOGY

Date: 13-03-2025

Day: Thursday

Department of "INFORMATION TECHNOLOGY" organizing a Guest Lecture on "LLM MODELS AND ITS IMPLICATIONS ON VARIOUS APPLICATIONS"

DEPARTMENT OF INFORMATION TECHNOLOGY

Organizes a Guest Lecture on

**"LLM Models and its implications
on various Applications"**

by

Dr. R PRASANNA KUMAR,

Associate Professor, Department of CSE,
Amrita Vishwa Vidyapeetham , Chennai



Date: 13-03-2025

Venue: Conference Hall & IT Laboratory



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S.No.	Roll No	Name of the Student	Signature
1	22A31A1218	M. Renuka choudhary	M. Renuka
2	22A31A1212	T. Mounika Sri	T. mounika Sri
3	22A31A1211	G. Venkata priya	G. Venkata priya
4	22A31A1206	G. Rama Sri Devi	G. Rama
5	22A31A1216	K. Satya Sri	K. Satya
6	22A31A1202	B. Sanjana	B. Sanjana
7	22A31A1201	K. d. p. Sui devi	K. Sui devi
8	22A31A1227	U. Rama Sahithi	U. R. Sahithi
9	22A31A1223	S. Adilakshmi	S. Adilakshmi
10	22A31A1205	D. Theerth	D. Theerth
11	22A31A1225	T. Sar Mathu Somyuktha	T. Somyuktha
12	22A31A1232	V. Nagamani	V. Nagamani
13	22A31A1208	G. Kalitha	G. Kalitha
14	22A31A1228	U. Sameena	U. Sameena
15	22A31A1239	Ch. Rama Sathwik	Ch. Sathwik
16	22A31A1255	P.uma Sai Kiran	P.uma Sai Kiran
17	22A31A1246	T. N. Theibhavan	T. N. Theibhavan
18	22A31A1245	J. Srikanth	J. Sathwik
19	22A31A1262	T. Charan	T. Charan
20	22A31A1263	U. Navan satya Sai	U. Navan satya Sai
21	22A31A1256	R. Sriram	R. Sriram
22	22A31A1242	G. Manikanta	G. Manikanta
23	22A31A1248	K. Sandeep Kumar	K. Sandeep Kumar
24	22A31A1219	N. Vasavi	N. Vasavi
25	22A31A1226	U. Mithveni	U. Mithveni
26	22A31A1209	G. R. I. Deepika	G. Deepika
27	22A31A1215	K. Vinodini	K. Vinodini
28	22A31A1202	M. Panithra	M. Panithra
29	22A31A1213	T. Durga Anjali	T. D. Anjali
30	22A31A1204	Ch. Jahnavi	Ch. Jahnavi
31	22A31A1210	G. S. V. L. B. Sathupika	G. Sathupika
32	22A31A1221	P. Kanya Gowri	P. Kanya Gowri
33	22A31A1203	B. Raksha	B. Raksha
34	22A31A1233	Y. Venkata Sravani	Y. Sravani
35	22A31A1214	K. Radha bahari	K. Radha
36	22A31A1207	G. Jahnavi	G. Jahnavi
37	22A31A1234	Y. Praanya	Y. Praanya
38	22A31A1222	S. Lakshmani	S. Lakshmani
39	22A31A1220	P. L. Reetha	P. L. Reetha
40	22A31A1217	SHAGUNTHA SABEEN	Shaguntha
41	22A31A1201	P. Ananth	P. Ananth
42	22A31A1230	Padhmaja	Padhmaja
43	22A31A1252	O. Surya Prakash	O. Surya
44	22A31A1247	K. Deepika	K. Deepika
45	22A31A1266	V. Nithin Kumar	V. Nithin Kumar
46	22A31A1240	D. Sudheer	D. Sudheer
47	22A31A1243	G. A. S. V. Prasad	G. Prasad
48	22A31A1261	T. Ram Kiran	T. Ram Kiran

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THEME OF THE EVENT:

Topic: LLM Models and its Implications on Various Applications

Date: 13th March 2025

Venue: Conference Hall & IT Laboratory

Speaker: Dr. R. Prasanna Kumar, Associate Professor, Department of CSE, Amrita Vishwa Vidyapeetham, Chennai.

Introduction

The Department of Information Technology organized a guest lecture on **Large Language Models (LLMs)** and their impact on different fields. The session was conducted by **Dr. R. Prasanna Kumar**, who explained the basics, evolution, working principles, and applications of LLMs in various domains.

What are LLMs?

LLMs (Large Language Models) are AI-based models that are trained on huge amounts of text data. These models use deep learning, especially **transformer architectures**, to generate human-like text. Examples include **GPT**, **BERT**, and **T5**.

Evolution of LLMs

Dr. Prasanna Kumar explained the timeline of LLMs, mentioning:

- **GPT-1 (2018):** Introduced the transformer model.
- **BERT (2019):** Improved understanding of text using a bidirectional approach.
- **GPT-3 (2020):** Generated coherent and meaningful responses.
- **GPT-4 (2023):** More advanced, handling multiple types of data.

Core Components of LLMs

The speaker described key components of LLMs, including:

- **Transformer Architecture:** The foundation of modern LLMs.
- **Self-Attention Mechanism:** Helps models understand the importance of words in a sentence.
- **Model Parameters:** Defines the performance and complexity of an LLM.
- **Data Pre-training:** Uses large datasets to train the model for different tasks.

How LLMs Work

LLMs function by predicting the next word in a sentence based on the given input. They use **various tuning parameters** such as:

- **Temperature:** Controls creativity in responses.
- **Top-k & Top-p Sampling:** Determines word choices for balanced outputs.
- **Context Window:** Decides how much past information the model remembers.
- **Frequency & Presence Penalties:** Helps avoid repetition.

Applications of LLMs

LLMs are widely used across industries, such as:

1. **Software Engineering:** Code generation and debugging.
2. **Education:** Personalized learning, exam preparation, and tutoring.
3. **Healthcare:** Medical diagnosis and research.
4. **Finance:** Risk assessment, fraud detection, and financial analysis.
5. **Law:** Legal document review and case summarization.
6. **Customer Service:** AI chatbots for better user experience.



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Challenges and Ethical Concerns

The lecture also discussed some limitations and challenges:

- **Bias in AI:** LLMs can reflect biases present in training data.
- **Misinformation:** AI-generated content can be misleading.
- **Privacy Issues:** *Data security concerns with AI models.*
- **High Cost:** Training LLMs requires massive computational resources.

Future of LLMs

Dr. R Prasanna Kumar concluded by discussing the future trends of LLMs, including **better multimodal models, efficiency improvements, and ethical AI development**. He also mentioned how companies are competing to build advanced models like **GPT-4, Gemini, Llama 3, and Claude 3**.

Conclusion

The session was very informative and helped understand how LLMs work and their impact on different sectors. The lecture also highlighted the importance of **responsible AI usage** and the need for improvements in AI transparency and fairness. The event ended with an interactive Q&A session, where students clarified their doubts regarding LLMs and their applications.



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REPORT:

The session “LLM Models and Their Implications on Various Applications” was taught by Dr. R. Prasanna Kumar, Associate Professor, Department of CSE, Amrita Vishwa Vidyapeetham, Chennai

Here are the pictures:





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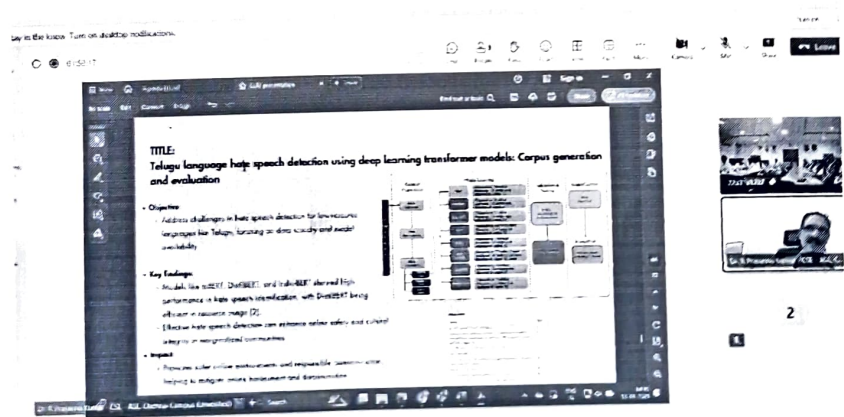
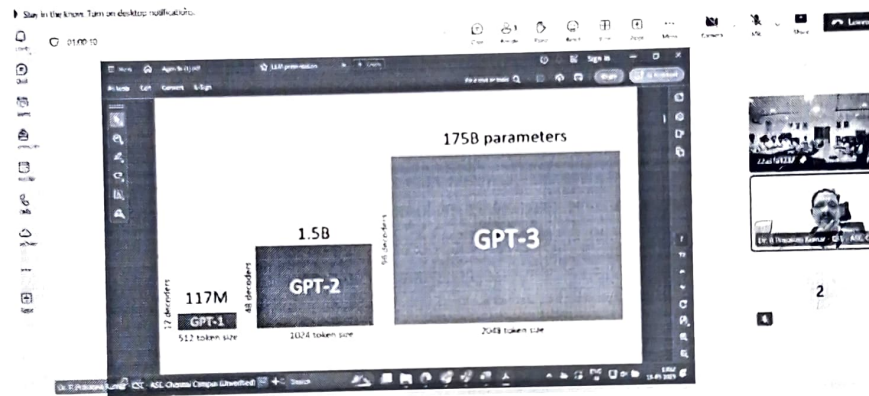
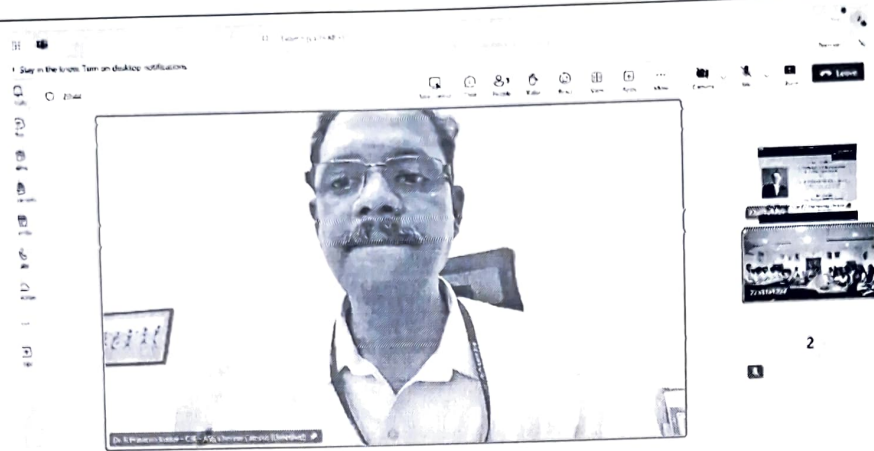




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FEEDBACK:



Link : <https://forms.gle/Nk4ZoNJzG4BD1pBx9>

FEEDBACK :

S.No.	NAME	ROLL NO	MAIL ID	BRANCH	FEEDBACK
1	Vagu Sameera	22A31A1228	vagusameera@gmail.com	IT	Excellent
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52	Deepak	22A31A1247	deepakkadiyala2727@gmail.com	IT	Excellent
53	G.R.L.Deepika	22A31A1209	deepikag12004@gmail.com	IT	Excellent



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FEEDBACK ANALYSIS REPORT :

We collected feedback from all the students via online. We have designed a feedback form for this. Student's feedback on the event is presented below:

FEEDBACK	NO OF STUDENTS
Excellent	46
Good	07
Average	00
Total	53

FACULTY CO-ORDINATOR

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