

REPORT

SDLP Talk on Emerging Trends in Artificial Intelligence: Conquering Speech and Vision Using Large Language Models

Organized by: IEEE SB Marian Engineering College in association with the Department of Electronics & Communication Engineering

In association with: IEEE Kerala Section

Speaker: Dr. Sunil T T, Director, ICFOSS, Trivandrum

Date: 17 September 2026

Time: 11:00 AM – 12:00 PM

Venue: EC Seminar Hall

Total Count of Participants: 120

Event Overview

IEEE Student Branch, MEC in association with the Department of Electronics & Communication Engineering and IEEE Kerala Section, organized a technical session titled “Emerging Trends in Artificial Intelligence: Conquering Speech and Vision Using Large Language Models.” The session was conducted as part of the IEEE Kerala Section’s Student Development and Learning Programme (SDLP) and was delivered by Dr. Sunil T T, Director, ICFOSS, Trivandrum.

The session commenced with a warm welcome to the distinguished speaker, Dr. Sunil T T, by the IEEE Student Branch Chair, MEC, followed by a brief introduction of the speaker and an overview of the session. Dr. Sunil T T was then invited to address the participants and share his insights on the emerging developments in Artificial Intelligence.

The session introduced participants to the fundamental concepts and recent developments in Artificial Intelligence (AI) and Large Language Models (LLMs). The major topics covered included:

Learning from Features: Understanding how AI systems extract and learn meaningful features from data for prediction and decision-making.

AI Models and the Mathematics Behind AI: An overview of the mathematical foundations used in AI, including data representation, functions, probability, and optimization.

Artificial Neural Networks (ANN): Introduction to neural networks, their structure, neurons, layers, weights, and their role in learning patterns from data.

Large Language Models (LLMs): Understanding how modern AI models process and generate human language and their applications in speech and vision-related tasks.

Retrieval-Augmented Generation (RAG): Explanation of how external knowledge sources can be combined with LLMs to provide more relevant and context-based responses.

The session provided students with a better understanding of how modern AI systems learn from data and how technologies such as ANNs, LLMs, and RAG are being integrated to develop intelligent applications involving language, speech, and vision. The interactive and informative session enhanced the participants' awareness of emerging AI technologies and their practical applications.

The programme concluded with a vote of thanks delivered by Dr. Sheeja Agustin, Branch Counsellor of IEEE Student Branch, MEC, who expressed gratitude to the speaker, organizers, and participants for their valuable contributions to the successful conduct of the session. As a token of appreciation, a memento was presented to Dr. Sunil T T by Dr. Sheeja Agustin, Branch Counsellor, IEEE Student Branch, MEC.

Report Prepared by:

Nandhitha Sumesh
IEEE SB Chair, MEC

Event Poster:

 **IEEE SB**
Marian Engineering College



IEEE Kerala Section

 **IEEE**

IEEE SB MCE in association with **Department of Electronics & Communication Engineering** presents:

Emerging Trends in Artificial Intelligence:

Conquering Speech and Vision
Using Large Language Models

SDLP BY IEEE KERALA SECTION

17
SEP 2026
11 - 12 PM THURSDAY

Venue
EC Seminar Hall



Dr Sunil T T
Director, ICFOSS
Trivandrum, Kerala

For queries, please contact:
Nandhitha Sumesh
+91 6282 426 207

 [ieeesbmce](#)

Event Photograph:







Event Attendance

SDLP - 26 Talk Session Attendance list				
Name	Sem	Dept	Roll No	Sign
1) Adithi C.A	SS	EC	3	<u>Adi</u>
2) Pavan Pradyoth	SS	EC	41	<u>Pavan Pradyoth</u>
3) Sreedhar S. Ashwin	SS	EC	53	<u>Sreedhar</u>
4) Gautham Sijith	SS	EC	85	<u>Gautham</u>
5) Anurag A	SS	EC	19	<u>Anurag</u>
6) Adwait S	SS	EC	4	<u>Adwait</u>
7) Alcem	SS	EC	7	<u>Alcem</u>
8) Nandana S	SS	EC	37	<u>Nandana</u>
9) Siddharth	SS	EC	48	<u>Siddharth</u>
10) Krishnaji	SS	EC	30	<u>Krishnaji</u>
11) Arjun S.S	SS	EC	15	<u>Arjun</u>
12) Sneha Shaji	SS	EC	49	<u>Sneha</u>
13) Arjun Ravi	SS	EC	14	<u>Arjun</u>
14) Soorya Nandhan	SS	EC	50	<u>Soorya</u>
15) Madhav Krishna S	SS	EC	33	<u>Madhav</u>
16) Anasuya Lal L	SS	EC	11	<u>Anasuya</u>
17) Gautham Krishna S	SS	EC	26	<u>Gautham</u>
18) Abhinav A.S	SS	EC	1	<u>Abhinav</u>
19) Pranav Kishan	SS	EC	43	<u>Pranav</u>
20) Don S Nair	SS	EC	62	<u>Don</u>
21) M.G. Adarsh	SS	EC	32	<u>M.G.</u>
22) Vaishnav M	SS	EC	54	<u>Vaishnav</u>

23) R.B. Balagovind	SS	EC	44	<u>R.B.</u>
24) Sravan P	SS	EC	52	<u>Sravan</u>
25) Richardson	SS	EC	45	<u>Richardson</u>
26) Sradha Vinod	SS	EC	51	<u>Sradha</u>
27) Gayathri S. Nair	SS	EC	61	<u>Gayathri</u>
28) Tharmanna S. Anukool	SS	EC	56	<u>Tharmanna</u>
29) Steve P. Stanes	SS	EC	54	<u>Steve</u>
30) Angel John	SS	EC	13	<u>Angel</u>
31) Anekha AS	SS	EC	63	<u>Anekha</u>



SDLP 26 - Talk Session

17/9/26

Attendance sheet

Name	Sem	Dept	Roll No
1) Vishnu R.P	SS	ECE	60
2) Abana Nigesi	SS	ECE	5
3) Ananthu Sunil	SS	ECE	9
4) Ganga Gopam	SS	ECE	24
5) Ananthu A.S	SS	ECE	8
6) Arun Sander	SS	ECE	14
7) Suresh Khar M	SS	ECE	55
8) Bala Bala	SS	ECE	22
9) Naga Krishna S.R	SS	ECE	39
10) Anaswara R.M	SS	ECE	12
11) Pooja A.S	SS	ECE	42
12) Parvathy Sree Kumar	SS	ECE	40
13) Vazha G	SS	ECE	58
14) Devi Krishna D.S	SS	ECE	21
15) Anaswara Suresh	SS	ECE	6
16) Ritu R.R	SS	ECE	46
17) H. Jagathi Krishnan	SS	ECE	27
18) Nandana L	SS	ECE	36
19) Josh Manjya K	SS	ECE	29
20) Mary Nimmi Joy	SS	ECE	39
21) Lekshmi S M	SS	ECE	31

Name	Sem	Dept	Roll no
25) Adarsh Rajeev	SS	CSE	3
26) Athul Dileep	SS	CSE	18
27) Adithya Narayanan	SS	CSE	5
28) Chris Mattumel	SS	CSE	21
29) Allen Sankeerth	SS	CSE	11
30) Sanjana Suresh	SS	CSE	52
31) Anura Marium Francis	SS	CSE	15
32) Ananthu Krishna	SS	CSE	13
33) Vaishnavi Syath	SS	CSE	61
34) Deva Devan	SS	CSE	22
35) Gowri Nandana A	SS	CSE	28
36) Pratul J.S	SS	CSE	47
37) Anomel Krishna B.S	SS	CSE	64
38) Sroa Ram.R	SS	CSE	57
39) Soorya Lakshmi	SS	CSE	58
40) VRINDHA M	SS	CSE	63
41) DEEKSHITH C RAJ	SS	CSE	23
42) VISAKH S N	SS	CSE	62
43) ABHIRAM	SS	CSE	10
44) AKSHAYA RAJ	SS	CSE	8
45) Neha Jeethish	SS	CSE	45
46) Ritu Rajan	SS	CSE	51
47) Keethana N.S	SS	CSE	38
48) Azeen Amina	SS	CSE	19
49) Bhavya	SS	CSE	20
50) Anron Berudiet Dimuz	SS	CSE	16



32)	Naveen S	SB	CSE R2	38	<u>J. D. ...</u>
33)	Harinandana K.	SB	CSE R2	28	<u>...</u>
34)	Martin Job	SB	CSE R2	35	<u>Martin J.</u>
35)	Miss Mario Cedric	SB	CSE R2	22	<u>...</u>
36)	Evan Ernest	SB	CSE R2	25	<u>...</u>
37)	Juan Baldwin Lopez	SB	CSE R2	37	<u>...</u>
38)	Jerin P Jacob	SB	CSE R2	35	<u>Jerin P.</u>
39)	Abhinand B	SB	CSE R2	3	<u>...</u>
40)	Jasen Binu	SB	CSE R2	34	<u>...</u>
41)	Ryan Babu	SB	CSE R2	32	<u>...</u>
42)	Alan S. Robin	SB	CSE R2	10	<u>...</u>
43)	Gouri Shibu.	SB	CSE R2	27	<u>...</u>
44)	Anavadya Anil	SB	CSE R2	14	<u>...</u>
45)	Devika S Rajeev	SB	CSE R2	23	<u>...</u>
46)					