MISRIMAL NAVAJEE MUNOTH JAIN ENGINEERING COLLEGE

Owned and Managed by Tamil Nadu Educational and Medical Trust
A Jain Minority Institution
Approved by AICTE and Affiliated to Anna University, Chennai
Jyothi Nagar, Thoralpakkam, Chennai - 600097.

Organized by Department of CSE & ADS

Report on Short Term Training Programme on "Generative AI"

Event Type: STTP

Event Title: GENERATIVE AI

Date: 12.02.2025 - 14.02.2025

Venue: AC Seminar hall

Resource Persons:

1. Mr. Sai Venkateshwaran Srinivasan, Senior Manager, AI & ML, Standard Chartered Global Business Services, Chennai
2. Dr. R. Subhashini, Prof., & VP Academics, SRMIST, Ramapuram, Chennai
3. Mr. Kaviarasu Kathirvel, Director, Business Growth and Enablement, Agilisium Consulting, Chennai
4. Dr. T. R. Reshmi, Scientist, Society for Electronic Transactions and Security, Govt. of India, Chennai
5. Dr. V. Natarajan, Scientist, Society for Electronic Transactions and Security, Govt. of India, Chennai
6. Mrs. A. Jeyanthi, Associate Professor, & HoD, Department of AI&DS, MNMJEC
7. Dr. R. Sethuraman, Associate Professor, Department of Computer Science and Engineering, Sathyabama Institute of Science and Technology
8. Dr. A. Kannan, Former Professor & HoD, Department of Information Science and Technology, Anna University, Chennai

Convenors

1. Dr.N.Saravanan, Professor & Head/CSE
2. Mrs.A.Jayanthi,Associate Professor & Head/ADS
3. Dr.V.Viswanathan, Liaison Officer

The Inauguration session was started with Jain Prayer song followed by Tamil Thai Vazhuthu and lighting of kuthu vilakku by the dignitaries.

Prof. Dr. N. Saravanan, HoD, Department of Computer Science and Engineering in his welcome address has welcomed the gathering, elaborated our college motto, the structure, objectives and scope of the short term training programme. Prof. Dr. C. C. Christopher, the Principal in his inaugural address has explained the need and importance of the AI technologies for the

development of the society across the globe, its positive impact on job opportunities to those who are well versed and interested to work with AI related technological advancements and to impart and equip our students and staff members to enhance their knowledge, such programmes are conducted regularly in our campus. The Chief Guest of the inaugural programme Mr. Sai Venkateshwaran Srinivasan, Senior Manager, AI & ML, Standard Chartered Global Business Services,Chennai, spoke in detail about the technological advancements over the years and how far it evolves around each and every spheres of the society. He shared the key concepts of Gen AI, Introduction to ML, DL & LLM.

Day 1: 12.02.2025

The first two technical sessions were handled by **Mr. Sai Venkateshwaran Srinivasan**, Senior Manager, AI & ML, **Standard Chartered Global Business Services**, on **Introduction to Deep Learning and Fundamentals of Generative AI**. He informed us that soon he will handle one day workshop on Deep Learning to our students and also assured us of his help to guide our students pursuing their end semester projects on AI and update our staff members on the latest applications of the Generative AI in the software industry.

The third technical session was handled by **Dr. R. Subhashini**, Vice Principal (Academics) and Professor, Department of Computer Science and Engineering, **SRM Institute of Science and Technology**, Ramapuram Campus on **Applications of Generative AI models**. The session focused on the dynamic and rapidly evolving field of Computer Vision, blending theoretical concepts with practical demonstrations to provide a comprehensive learning experience. She too assures all type of help to our students on this area as well in Data Science. She too expressed her desire to conduct workshops on the latest developments in Data Science, AI, Image Processing, etc. to our students.

Day 2: 13.02.2025

The Fourth and Fifth sessions on the Second Day morning were handled by **Mr. Kaviarasu Kathirvel**, Director, Business Growth and Enablement, **Agilisium Consuting** on **Agentic AI, Agentic AI Vs Generative AI, Ethical Considerations of Generative AI models and Introduction to Hugging Face Models**. The discussion about Agentic AI included variety of sectors, such as e-commerce, healthcare, and finance. He advised our students to pursue their career in AI and assured our students that he will do all the necessary help for those students interested in this field on internships, end semester projects and job opportunities for those successfully completing the internship in his company M/s. Agilisium Consulting, itself. Earlier, because of his effort, helped two of our final year AI & DS students to undergo an internship with his previous employer and students are about to join the internship in due course.

Dr. T. R. Reshmi, Scientist, **Society for Electronics Transactions and Security**, Government of India, handled **the sixth session** on the afternoon, on **Generative AI with Blockchain Technology**. She explored the significance of Gen AI and Blockchain technologies and their potential to ignite an entrepreneurial revolution. Entrepreneurship has always been a driving force behind economic growth, job creation, and societal progress. She informed us that plenty of student projects are available in her department on all the latest computing technologies and asked our students to apply for them and assured her she would help to do the needful for the interested students.

Dr. V. Natarajan, Scientist, Society for Electronics Transactions and Security, Government of India, handled the seventh session on Adversarial attacks on AI systems. He briefly overview of adversarial machine learning for policymakers, business leaders, and other stakeholders who may be involved in the development of machine learning systems. He too advised the students to apply for the end semester projects available in their department and he will help on the following topics like image processing, embedded electronics, quantum computing and algorithms.

Day 3: 14.02.2025

Mrs. A. Jeyanthi, Associate Professor and Head, Department of Artificial Intelligence and Data Science, **MNMJEC** handled **the eighth session** of the event on the third day morning with a practical session on **Hugging face models** in our college PG laboratory. She discussed the scope and capabilities of the Hugging Face platform to effectively navigate and utilize its resources for text generation.

Dr. R. Sethuraman, Associate Professor, Department of Computer Science and Engineering, **Sathyabama Institute of Science and Technology** handled **the ninth session** of the event on **Large Language Modelling**. Earlier, Dr. Abirami Murugappan, Professor, Department of Information Science and Technology, Anna University has agreed to deliver on the above topic but due to hospitalization of her son, she was not in a position to participate in the event, and we approached Dr. R. Sethuraman, and he accepted our last minute invite and delivered the lecture on the same topic. He assured us he will extend his help in getting AICTE funded projects, guiding students in innovative technologies and entrepreneurship activities.

The tenth and last technical session was handled by **Dr. A. Kannan**, Professor and Head (Retired), Department of Information Science and Technology, **Anna University** on **Research Directions and Trends in Generative AI**. He explored the following Challenges and Research Directions on Gen AI:

Challenges:

Bias in Decision-Making,Accountability,Trust and Transparency, Safety in Critical Applications,and Integration with Human Teams

Research Directions:

Ethical AI Frameworks,Human-AI Collaboration, Advanced Architectures for Hybrid AI, Robustness and Safety Assurance, Interdisciplinary Collaboration, and Scalability and Efficiency.

In the valedictory session, the Principal gave the momentos to the Chief Guest Prof. Dr. A. Kannan and to the Department of Computer Science and Engineering and Department of Artificial Intelligence for successfully organizing the event. The Principal addressed the students to pursue their career in AI related areas and advised them to do their final year projects in the domain to get employment opportunities easily.

The Chief Guest Prof. Dr. A. Kannan distributed the certificates to the participants for recognizing their engagement and contributions. Overall, forty-four students and staff members were participated on all the three days of the event. Due to placement activities and examinations some students participated in the event only for two days. Feedback from attendees was then collected, highlighting the positive impact of the event and the scope for improvement.

The organizers would like to thank our Management for approving the proposal and financial supports for conducting the short-term training programme on Generative AI for the students and staff members, which enhanced their knowledge of the recent advancements. The organizers would like to thank the Principal for guiding the organizing team in executing the event from its commencement to conclusion. Overall, the three days filled with brainstorming technical sessions have helped the participants to explore their ideas in the applications of Generative AI Agents.

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