

JSS COLLEGE FOR WOMEN (Autonomous)
Saraswathipuram Mysuru

Department of Computer Science

Report on
One Day National Conference
“Artificial Intelligence Applications”: Sharing the Future with AI on 25/10/2025.

The Department of Computer Science at JSS College for Women, Saraswathipuram, Mysuru, organized a One Day National Conference on “Artificial Intelligence Applications: Sharing the Future with AI.” The primary objective of the Conference was to introduce students and academicians to emerging AI techniques, real-time implementations, and interdisciplinary applications.

Inaugural Session

The Conference was inaugurated by Dr. C. G. Betsurmah, Executive Secretary, JSS Mahavidyapeetha, Mysuru. He stressed that artificial intelligence is driving modern innovations in the current digital area and advised the participants to adopt AI responsibly due to its benefits and associated risks.

The chief guest, Dr. S. Manjunath, Principal Engineer, Samsung Electro-Mechanics Co. Ltd., Bengaluru, remarked that AI is now a capability rather than just a technology and asserted that individuals who leverage AI will be the ones to succeed in the future.

In his presidential remarks, Dr. D. S. Guru, Senior Professor, University of Mysore, highlighted the collaboration of AI with biotechnology and nanotechnology, along with its role in utilizing vast data resources. He emphasized that AI complements human intelligence instead of replacing it.

The Inaugural Session witnessed participation from the college administration, faculty members, and students. The event began with an invocation by Kum. Keerthana and team, followed by a welcome address by Ms. Sahana P S and a vote of thanks by Smt. Nandini R V. The proceedings were compered by Ms. Rakshitha S D.



The academic portion of the Conference featured three technical sessions focusing on different domains of AI:

Technical Session I

Resource Person: **Dr. D. S. Guru**

Topic: **AI in Real Time - Opportunities and Challenges**

This session addressed the potential and technical challenges of using AI in real-time processing environments.

Dr. D. S. Guru explained various AI technologies, including Machine Learning and Deep Learning, and their integration into real-time systems such as gender classification, age estimation, expression recognition in online classes, social distance violation detection, medical applications, AI in animal science, sports analytics, personal protective equipment detection, and flower classification.

He discussed how AI selectively identifies the best views in real-time, such as monitoring attendance shortages, supporting age-based searches, and analysing student expressions in online classes. AI applications in social distancing were demonstrated using drone-captured video for rule enforcement. In the medical field, AI aids in detecting breast cancer cells through screening systems. In animal science, AI helps predict animal age to support veterinary diagnostics.

Additionally, AI is applied in automation for personal protective equipment detection and vehicle rule enforcement, alerting systems to prevent accidents. Visual quality analysis using AI differentiates naturally ripened fruits from chemically treated ones, such as mangoes.

Dr. Guru also highlighted the opportunities and challenges of AI, emphasizing that AI is not merely a technology but an extension of human capabilities.



Technical Session II

Speaker: **Dr. S. Manjunath**

Topic: **AI for Language Processing**

Chair: **Dr. H. S. Nagendraswamy**

Rapporteur: **Dr. S. Siddesha**

The session explored advances in natural language processing and the growing adoption of AI in multilingual applications.

The session was conducted by Dr. S. Manjunath, with Guest Dr. H. S. Nagendraswamy and Rapporteur Dr. Siddesha. The speakers discussed the origin of computers,

Language intelligence, a branch of Artificial Intelligence (AI), focuses on *Natural Language Processing (NLP)* — enabling machines to understand, interpret, generate, and respond meaningfully to human language. The speaker demonstrated how machines read, reason, and respond, explained the history of NLP, linguistic theories, and grammar trees, and showcased how predictive models aid decision-making. He also emphasized the importance of AI ethics for a balanced technological future.

The session enhanced students' understanding of AI, Machine Learning, Deep Learning, and the way the human brain processes ideas. Applications of language intelligence discussed included voice assistants, chatbots, language translation, sentiment analysis, and AI-driven text generation. The speaker also explained the four levels of interviews.

Technical Session III

Speaker: **Dr. Anitha Raghavendra**

Topic: **Application of AI in Agriculture**

Chair: **Dr. B. N. Santhosh Kumar**

Rapporteur: **Dr. P. G. Lavanya**

The session highlighted smart agricultural systems and data-driven solutions for improving crop productivity.

Artificial Intelligence (AI) is widely used in agriculture to make farming smarter and more efficient. AI helps in crop monitoring, disease detection, and weather prediction, allowing farmers to take timely actions. Through precision farming, AI guides the correct use of water, fertilizers, and pesticides, improving crop yield and saving resources.

AI-powered robots and drones are used for planting, spraying, and harvesting crops, reducing labor and time. It also assists in yield prediction, farm management, and supply chain optimization, ensuring better planning and reduced food waste.

How Artificial Intelligence (AI) can be applied in various fields of agriculture, including tobacco leaf disease identification, flower classification, fruit or vegetable price prediction, and post-harvesting management. These AI-driven solutions help improve efficiency, accuracy, and decision-making in agricultural practices.



Paper Presentation Sessions

Two parallel paper presentation tracks were conducted, enabling participants to showcase their research innovations in artificial intelligence.

Session I

Chairperson: Dr. Chandrajith Mohan

Coordinator: Dr. Vidyashankara

Session II

Chairperson: Dr. G. Hemakumar

Coordinator: Dr. Prakash Raj Urs

Presenters included students and researchers from various institutions, delivering insights into contemporary AI applications.

Conclusion

The One Day National Conference on Artificial Intelligence Applications provided a valuable platform for intellectual exchange, enabling participants to update their knowledge on state-of-the-art AI technologies and their interdisciplinary uses. The sessions and paper presentations enhanced learning, inspired innovation, and encouraged future research collaborations in the field of artificial intelligence.