Sarvajanik Education Society

Sarvajanik College of Engineering & Technology

Dr. R. K. Desai Marg, Opp.Mission Hospital, Athwalines, Surat-395001

Report for a Celebration of

"World Innovation Day"

Date: 29th November 2024

Venue: N.J. Seminar Hall, SCET

Faculty Co-ordinators

Dr. Dhruti Sharma

Dr. Mita Parikh

In association with

Institution's Innovation Council (IIC), SCET

Students Council, SCET

Introduction

World Innovation Day is observed globally to recognize and promote advancements in science and technology that drive progress across various domains. In alignment with this spirit, the Department of Information Technology, SCET, planned an Expert Talk on "Applications of Machine Learning in Healthcare" under the aegis of R&D Cell, SCET. Due to unforeseen circumstances, the event, originally scheduled for October, was conducted on 29th November 2024. Despite the delay, the session successfully fulfilled its objective of fostering awareness and inspiring innovation in healthcare technology among students.

About the event

The Expert Talk was aimed at exploring the intersection of machine learning and healthcare, emphasizing its transformative potential in diagnosis, treatment, and medical research. The session provided students with insights into real-world applications, ongoing research, and challenges in the domain. The talk was delivered by Dr. Anubha Gupta, Professor at IIIT Delhi, a distinguished researcher in biomedical signal and image processing.

Participation Details:

The session was attended by 102 students from BTech (Information Technology) and BTech (Artificial Intelligence and Data Science). Students actively engaged with the expert, demonstrating keen interest in the subject and participating in a Q&A session towards the end of the talk.

Introduction of Expert

Dr. Anubha Gupta is a renowned researcher in the field of machine learning applications for healthcare. She has contributed significantly to areas such as cardiovascular disease diagnosis, cancer genomics, cancer imaging, and biomedical signal processing, including fMRI, MRI, EEG, and ECG analysis. Her recent work on "Explainable AI Model for Cardiac Disorder Detection" won the 2023 Lab2Market Challenge of IndiaAI, Govt. of India. Her vast expertise and practical insights made the session highly valuable for the attendees.

Event Highlights

Dr. Anubha Gupta elaborated on how machine learning is revolutionizing healthcare, particularly in medical imaging, diagnosis, personalized medicine, and drug discovery. She discussed her recent research and breakthroughs, particularly in cardiac disorder detection and cancer imaging. The session also covered the challenges and ethical considerations in applying AI to healthcare. The domain of innovation highlighted in the session included AI-driven diagnostics, automated medical image analysis, predictive analytics for disease prevention, and personalized treatment strategies using machine learning. Students were highly engaged and participated actively in discussions, reflecting their enthusiasm for the topic.

Conclusion:

Despite the delay in conducting the event, it successfully captured the essence of World Innovation Day by encouraging students to explore cutting-edge technologies in healthcare. The talk motivated students to take up research-driven projects and contribute to the advancement of AI applications in medicine

We express our heartfelt gratitude to the Provost, Principal, faculty members, and all the participants and students for making this World Intellectual Property day a truly memorable and meaningful event. As we look forward to the coming years, we aspire to continue this

tradition of spreading technical awareness and knowledge among our students with enthusiasm and dedication.

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