



Sarvajani University  
**Sarvajani College of Engineering and Technology**  
Department of Information Technology

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Report of Expert talk on  
***"Applications of Machine Learning in Healthcare"***

*Organized by*  
**Department of Information Technology, SCET**

*Held on*  
**29th November 2024**

**Eminent Speaker**  
**Dr. Anubha Gupta, IIIT Delhi**

*Co-ordinators*  
**Dr. Mita Parikh**  
**Dr. Dhruti Sharma**

The Department of Information Technology, SCET organized an Expert Talk on “Applications of Machine Learning in Healthcare” under the aegis of R&D Cell, SCET. The talk was delivered by Dr. Anubha Gupta, Professor at IIIT Delhi. Dr. Anubha Gupta is an eminent researcher working in the domain of applying machine learning for cardiovascular disease diagnosis, cancer genomics, cancer imaging, biomedical signal and image processing including fMRI, MRI, EEG, and ECG signal processing. Her recent work on “Explainable AI Model for Cardiac Disorder Detection” won 2023 “Lab2market” challenge of IndiaAI, Govt. of India. Details of the delivered talk are as mentioned below.

### **Topic, Speaker, Timings and Venue**

**Title of the Talk:** Applications of Machine Learning in Healthcare

**Guest Speaker:** Dr. Anubha Gupta, Professor, IIIT Delhi

**Date & Time:** 29th November 2024 (Friday) at 11.30 am

**Venue:** A.V. Room, First Floor, SCET

### **Purpose of the talk**

The purpose of the talk was to create awareness among students regarding applications of Machine Learning in various domains of healthcare including Diagnosis and Treatment, Medical Imaging, Personalized Medicine and Drug Discovery, and to motivate students to work on innovative projects in this domain.

### **Highlights of the session**

- Dr. Anubha Gupta shared information regarding applications of machine learning in diverse domains of healthcare using examples from her expertise
- She made students aware regarding recent work in this area, especially in the domain of ‘cardiac disorder detection’ and ‘cancer imaging’
- Dr. Anubha Gupta highlighted the challenges in this field and motivated students to work towards them
- The talk was attended by 102 students from BTech(Information Technology) and BTech(Artificial Intelligence and Data Science)
- Students attended the session with great enthusiasm and actively participated in Q&A session towards the end of the talk

## Glimpses of the Session









## Acknowledgements

We would like to thank Sarvajani University and R&D Cell, SCET for providing us the necessary infrastructure and facilities to conduct the Expert Talk. We thank Dr. Hiren Patel, Principal, SCET; Dr. Vivaksha Jariwala, Head, IT Department; and members of SCET Management for their encouragement and support in conducting the expert talk. We sincerely thank Dr. Anubha Gupta for sharing her knowledge and expertise with our faculty and students. We thank all non-teaching staff from IT Dept for their support in conducting the event. Finally, we thank the audience for their enthusiastic participation and lively interaction during the R&D talk.