



Report on Seminar on "Seminar on Analytics using machine learning in the Medical Domain"

Date: 5th March 2025

Venue: Seminar Hall, College of Physiotherapy, School of Health Sciences, DSU

Time: 02:00 p.m. to 04:00 p.m.

Introduction

The session on "Analytics of Machine Learning in the Medical Domain" was conducted by Dr. Santhosh, an esteemed Associate Professor in the Department of CST at the School of Engineering, DSU. The session aimed to provide students and faculty with insights into the role of machine learning (ML) in medical analytics, its applications, and future possibilities.

Introduction to Machine Learning in Healthcare:

Dr. Santhosh began with an overview of machine learning and its increasing influence in the healthcare sector. He emphasized how ML algorithms can assist in diagnosing diseases, predicting outcomes, and optimizing treatment plans.

Data Analytics and Processing: The session covered the importance of high-quality data in ML applications, including data preprocessing techniques, feature selection, and handling missing values to enhance model accuracy.

Medical Imaging and Disease Detection: A significant portion of the talk focused on how ML is revolutionizing medical imaging through automated image classification, tumor detection, and anomaly identification in X-rays, MRIs, and CT scans.

Predictive Analytics and Patient Care: Dr. Santhosh discussed how predictive models help in assessing patient risk factors, improving early detection of diseases such as diabetes and cardiovascular disorders, and enhancing personalized medicine.

Students and faculty members gained valuable insights into the intersection of ML and healthcare.

The session sparked interest in research opportunities and projects in the domain. Attendees appreciated the practical examples and real-world case studies shared by Dr. Santhosh.

Conclusion

The session was highly informative and interactive, shedding light on the growing significance of machine learning in the medical field. The attendees benefited greatly from Dr. Santhosh's expertise, gaining a clearer understanding of how ML can contribute to advancements in healthcare.



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We express our gratitude to Dr. Santhosh for his insightful session and look forward to more such knowledge-sharing initiatives. The program was coordinated by Dr Srihari Sharma K N and Dr Sai Bhavani



Program coordinator

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Analytics Using Machine Learning in the Medical Domain

Dr. Santosh, PhD
Associate Professor, Department of CST,
School of Engineering, DSU



COLLEGE OF PHYSIOTHERAPY

Date: 5TH MARCH 2025

TIME: 2-4 PM

Dean, School of Health Sciences
Principal & Staff COPT DSU