DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
ACADEMIC YEAR 2022 – 2023 EVEN SEMESTER
INTERNAL STAFF SEMINAR REPORT

Department of Computer Science & Engineering organized an internal staff seminar on 15.03.23 at smart classroom.

OBJECTIVE

The objective of this seminar is to gain insight knowledge about Diabetes Prediction using Machine Learning Techniques.

SESSION DETAILS

Internal seminar for faculty of Computer Science Engineering department was conducted on 15.3.23 from 12.30 P.M to 1.15 P.M in Smart Class room. Ms.N.Dhamayandhi explained the basics of Diabetes Prediction using Machine Learning Techniques. In many research studies, well-known machine learning techniques, including the Naïve Bayes classifier, support vector machines, decision trees, random forests, K-nearest neighbors, and logistic regression, have been widely used in diabetes classification. In that paper, Naive Bayes, Logistic Regression, Random Forest, and Support Vector Machine techniques to predict diabetes disease. The proposed mechanism is implemented using Python. To analyse the proposed mechanism, a real dataset is collected from Kaggle. The paper described about Voice technology while the team at Klick Labs looked at a number of vocal features, like changes in pitch and intensity that can't be perceived by the human ear. Using signal processing, scientists were able to detect changes in the voice caused by Type 2 diabetes.

OUTCOME OF THE EVENT

- Got an idea about various types of machine learning techniques
- Assist the students to develop project in this domain
- Assist the faculty members to do their research in this domain

JOURNAL DETAILS:

- **Diabetes Prediction Using Machine Learning" authored by A. Almahdawi, Z. S. Naama, and A. Al-Taie, 3rd Information Technology To Enhance e-learning and Other Application (IT-ELA) conference in Baghdad, Iraq. DOI: 10.1109/IT-ELA57378.2022.10107919.**
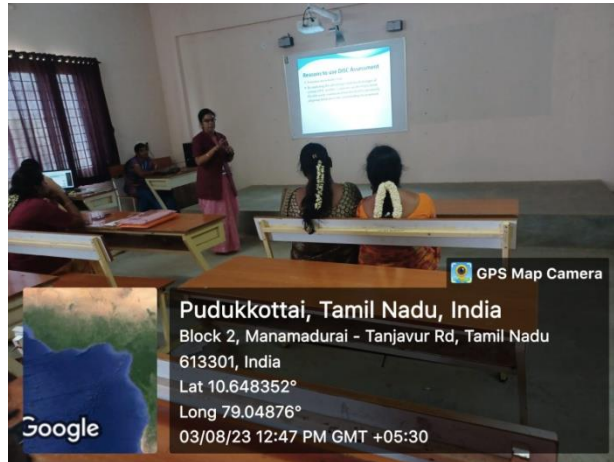
Ms.N.Dhamayandhi shared their concepts of Diabetes Prediction using Machine Learning Techniques