School of Computer Science Engineering and Technology

Course-BTech   **Type - AI Core-1**
Course Code - CSET211   **Course Name - Statistical Machine Learning**
Year - Second   **Semester - ODD**
Date - 21/10/2024   **Batch - CSE 3rd Semester**

Lab Assignment - 9: Implementation of Random Forest and Decision Trees

CO- Mapping

Section	CO1	CO2	CO3
Section 1: Q1-Q5	√	√	
Section 2: Q1-Q5	√	√	√

Section 1: Random Forest and Decision Trees on IRIS Dataset

Q1: Load the *IRIS dataset* and display the first few rows.
Q2: Split the dataset into training and testing sets.
Q3: Standardize the features using *Standard Scalar*.
Q4: Train a random forest and decision tree classifier on the iris dataset.
Q5: Display the classification report.

Section 2: Random Forest and Decision Trees on Diabetes Dataset

Repeat the above steps from Q1 – Q5 for Diabetes dataset *(diabetes.csv).*