

School of Computer Science Engineering and Technology

Course-BTech

Course Code - CSET211

Year - Second

Date - 14/10/2024

Type - AI Core-1

Course Name - Statistical Machine Learning

Semester - ODD

Batch - CSE 3rd Semester

Lab Assignment - 8: Implementation of SVM using in built function

CO- Mapping

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

Section 1: SVM 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 for SVM using *Standard Scalar*.

Q4: Train a SVM classifier with *kernel='linear', 'rbf', 'poly', etc.* for the kernel.

Q5: Display the classification report.

Section 2: SVM on Diabetes Dataset

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