

School of Computer Science Engineering and Technology

Course- B.TECH

Course Code- **CSET211**

Year- Second

Date- 01/11/2022

Type- AI Core-1

Course Name- **Statistical Machine Learning**

Semester- ODD

Batch- CSE 3rd Semester

Lab Assignment (31st Oct – 4th Nov 2022)

Lab 9 – Decision tree classifier

Objective: Student will be able to learn how to implement decision tree classifier.

Exp. No.	Name	CO1	CO2	CO3
09	Decision tree classifier			✓

Question -1: Marks: 2, Time: 45 min

Dataset: tennis.csv

Task 1: Perform Pre-processing steps on the dataset.

Task 2: Scale the features

Task3: Divide data into training and test sets

Task 4: Implement decision tree classifier with entropy or gini index

Task 5: Predict the result on test data

Task 6: Visualise the decision trees using export_graphviz library.

Practice Question -2: Time required: 45 Min Max.

File Name: Decision Tree Assignment 1.ipynb

Dataset: Initialize in notebook only

Task 1: define Decision Tree

Task 2: Define input vectors

Task 3: start fitting process

Task 4: predict the result

