

Computer Science and Engineering Department, SVNIT, Surat

M.tech.-I, Semester-I

Machine learning (CSCS111) 2024-2025

Lab Assignment 9

Problem statement:

Develop a single-layer perceptron-based ANN model to classify the output of basic Boolean functions—AND, OR, and XOR—based on two binary input values. The goal is to demonstrate the capabilities and limitations of single-layer perceptrons in modeling linearly separable and non-linearly separable functions.