Sri Sivasubramaniya Nadar College of Engineering, Chennai
(An autonomous Institution affiliated to Anna University)

Degree & Branch	M.Tech - Computer Science & Engineering	Semester	V
Subject Code & Name	ICS1512 & Machine Learning Algorithms Laboratory		
Academic year	2025-2026 (Odd)	Batch:2023-2028	**Due date:**

Experiment 1: Working with Python packages – Numpy, Scipy, Scikit-learn, Matplotlib

Aim :

To work with Python packages - Numpy, Scipy, Scikit-learn, Matplotlib by exploring the UCI repository and kaggle datasets to perform the specified Task.

Libraries used :
   - Numpy
   - Scipy
   - Scikit-learn
   - Matplotlib

Objective performed :

To learn about the Exploratory Data Analysis(EDA) and gain knowledge on Model Selection for Specific task

Results and Discussions :

Dataset	Type of ML task	Suitable ML Algorithm
Iris Dataset	Classification	Logistic Regression
Loan Amount Prediction	Regression	Linear Regression
Predicting Diabetes	Classification	Logistic Regression
Classification of Email Spam	Classification	Naive Bayes / KNN
Handwritten Character Recognition / MNIST	Classification	SVM or Convolutional Neural Networks

Table 1: Datasets and Suitable ML Algorithms

Learning Practices :

- I have Learnt to perform EDA.

- I am able to select suitable model for particular Task.

- I have Practiced the basics of Python(Pandas,Numpy) and visualization tasks.