

CSE 425 : Machine Learning Lab
Session: 2021-2022
Dept. of Computer Science and Engineering
Jatiya Kabi Kazi Nazrul Islam University, Mymensingh

Course Teacher: Professor Dr. Md. Sujan Ali

Problem No.	Title
01	Write a Python Program to Create and Write a .csv File using csv and Pandas Module.
02	Write a Python Program to Compute i) Central Tendency Measures: Mean, Median, Mode ii) Measure of Dispersion: Variance, Standard Deviation
03	Study of Python Basic Libraries such as Statistics, Math, Numpy and Scipy
04	Study of Python Libraries for ML application such as Pandas and Matplotlib
05	Exploring and Inspecting Datasets Using Pandas
06	Missing Data Management and Dataset Cleaning
07	Text Feature Engineering for SMS Spam Detection
08	Correlation-Based Feature Selection
09	Discovering the Most Relevant Features Using Chi-Square Feature Selection
10	Uncovering Hidden Feature–Target Relationships Using Mutual Information
11	Feature Scaling with Min-Max Normalization — Transforming Data to a Common Range
12	Train–Test Data Splitting for Reliable Machine Learning Evaluation
13	Impact of Train–Test Split Ratios on Machine Learning Performance