Computer Science and Engineering Department, SVNIT, Surat M.Tech-I, Semester-I Machine Learning (CSE605) End Sem Practical Examination

Time: 30 mins

Instruction:

- 1. This problem statement is for even roll numbers.
- 2. Use of the internet is restricted.

Apply Multilayer Perceptron (NN) over the given data set. And do following steps:

- 1. Drop column unwanted column from the data set (hash column).
- 2. Divide the given dataset into training and testing set, input (X) and output (Y) (malware column in the dataset) parameters.
- 3. Apply NN algorithm over the given dataset (i.e. mlp = MLPClassifier(hidden_layer_sizes=(100,100,100),max_iter=1000, random_state=42))
 - Changes the above given parameters to achieve better accuracy.
- 4. Identify associated accuracy, precision, recall over the given dataset.

Note: Dataset is attached with this document.