Department of Electronics and Communication Engineering
Visvesvaraya National Institute of Technology

Assignment 1: Machine Learning with Python Laboratory; ECL 443. Odd Semester, 2022-2023

Due Date: 08.08.2022

1. You have to upload your digital form of solutions to the Google classroom page created for this purpose.

2. You should name your function the following. Your complete rollnumber_dataset_div_shuffle. For example, if your roll number is BT20ECE001, then your function should be named as BT20ECE001_dataset_div_shuffle.

3. For this assignment, you do not have to submit any laboratory report. Submit your python file in the Google classroom.

4. DO NOT COPY FROM EACH OTHER. TRY EACH QUESTION ON YOUR OWN. WRITE THE LABORATORY REPORT USING YOUR OWN LANGUAGE. REMEBRE, THIS IS A BASIC COURSE AND THE CONCEPTS WILL BE REQUIRED THROUGHOUT YOUR DEGREE PROGRAM AND POSSIBLEY, FOR YOUR JOB/HIGHER STUDY. IF YOU COPY, YOU ARE HARMING YOURSELF.

Assignment Statement

Write your own function in Python for dataset division and shuffling. This function should accept .mat or .csv or .xls files containing the data and corresponding labels as well as the ratio of the training and testing dataset strengths. This function should produce training and testing datasets with corresponding labels as outputs. Both the training and testing datasets should be completely randomised/shuffled.