

Lab Assignment 4

Part 1

Introduction to Machine Learning

AY 2021-22, Semester - I

Instructions:

1. Prepare one code containing the question and submit it in .py format.
2. Provide link to your colab file in the private comments section of google classroom while submitting the .py file. Make sure that you have turned the sharing mode(view only) on for the colab file.
3. Any submission received in another format or after the deadline will not be evaluated.

K-nearest neighbour

1. Download the dataset from the link below.
https://drive.google.com/file/d/1s2lhEwbbSAGEtVuPpLwLg_wQ8P3Svf0I/view?usp=sharing
2. Visualize the data using scatter plot.
3. Use a distance/similarity metric of your choice, and train-val-test splits of 70:15:15.
4. Use the **sklearn** library to perform K-nearest neighbour classification with K=5 and report the accuracy and confusion matrix.