School of Computer Science and Engineering, VIT Chennai.

BCSE209P Machine Learning

Lab-5 KNN

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**Due Date : 24/01/2025**

Submit your python code (Jupyter notebook): with output for all the questions.

Q1. Assume you need to build a classifier to predict the graduate admissions into global universities for higher studies using parameters such as UG GPA, GRE score, research expertise, etc. Using the graduate.csv dataset, build a K-NN classifier to predict the graduate admissions chances (without using direct KNN scikit library). Report accuracy.

Q2. Apply K-NN for the graduate admissions problem using scikit library. Compare accuracy of K-NN for different values of K. Also change distance metrics and observe the accuracy.

Q3. Normalize the dataset (so as to have all the columns in same range e.g. (0,1) and apply KNN (scikit library) and report accuracy.