Lab Assignment 6

Machine Learning (UML501)

Q 1	Download the dataset from the following link. It has 5572 messages labeled as spam or ham: https://raw.githubusercontent.com/justmarkham/pycon-2016-tutorial/master/data/sms.tsv Implement Multinomial Naïve Bayes classifier (in-built) for detection of messages as spam or ham?
Q 2	(Gaussian Naïve Bayes Classifier) Implement Gaussian Naïve Bayes Classifier on the Iris dataset from sklearn.datasets using (i) Step-by-step implementation (ii) (ii) In-built function
Q3	Explore about GridSearchCV toot in scikit-learn. This is a tool that is often used for tuning hyperparameters of machine learning models. Use this tool to find the best value of K for K-NN Classifier using any dataset.