

Task 1 Classifiers - Machine Learning

1. Select any table dataset from <https://www.kaggle.com/datasets> contains at least 10 attributes, 1000 records and class label attribute (min 3 classes).
2. Write a Python program that creates classification models for the selected dataset with the following techniques:
 - Random forest
 - Gradient Boosting.
 - any other classifier you wish
3. Make some tests with the mentioned algorithms with different hyper parameter values and K-fold. Select the best parameters for all the algorithms.
4. Estimate the importance of features for boosting and random forest.
5. Get classification performance metrics (accuracy, precision, recall, f1-score) for all the models.
6. Write a short report containing the program and the results obtained.