

Task 1 Classifiers - Machine Learning

Write a Python program that creates three binary classification models for **recs2009_public.csv** dataset. The dataset contains information on houses in the different regions of the USA. The predicted label is the **Climate_Region_Pub** attribute (There are 5 classes). As you create binary classifiers you should fix the label attribute. For your class you set 1 as the label and for all other classes you set 0 as the label.

To solve the task, you can select any set of features and use any classifier you wish. But you should explain why you select them.

Examine some parameters of the models used to find the best set of parameters and avoid overfitting.

Write a short report contains the program and the results (some classification performance metrics: accuracy, precision, recall for all the classes) obtained.