adaboost_size_training_data

January 30, 2019

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In [1]: import numpy
        from sklearn.utils import shuffle
        from sklearn.model_selection import train_test_split
        X = numpy.loadtxt("./data/Train/X_train.txt")
        y = numpy.loadtxt("./data/Train/y_train.txt")
In [2]: X, y = shuffle(X, y)
        X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.10)
        size_training = len(X_train)
In [3]: from models import adaboost
        from sklearn.metrics import accuracy_score
        ks = [.05, .10, .20, .50, 1]
        report = []
        for k in ks:
            adaboost_model = adaboost.without_penalty(X_train[:int(k*size_training)], y_train[:i
            y_pred = adaboost_model.predict(X_test)
            score = accuracy_score(y_test, y_pred)
            data={
                'k': k,
                'score': score
            report.append(data)
In [4]: report
Out[4]: [{'k': 0.05, 'score': 0.87001287001287},
         {'k': 0.1, 'score': 0.8803088803088803},
         {'k': 0.2, 'score': 0.8751608751608752},
         {'k': 0.5, 'score': 0.861003861003861},
         {'k': 1, 'score': 0.8494208494208494}]
```