## Without oversampling

## with oversampling

Class p1:

Precision: 0.7997847147470398 Recall: 0.7512639029322548 F1 Score: 0.7747653806047967

Class p2:

Precision: 0.7891237640640982 Recall: 0.9110411336351112 F1 Score: 0.8457111537407509

Class p3:

Precision: 0.41651376146788993 Recall: 0.17448116833205227 F1 Score: 0.24593716143011918

Class p4:

Precision: 0.6129629629629629 Recall: 0.6310772163965681 F1 Score: 0.6218882104274307 Class p1:

Precision: 0.7739043824701195 Recall: 0.7856420626895855 F1 Score: 0.7797290516808831

Class p2:

Precision: 0.8011727078891258 Recall: 0.8874237354851408 F1 Score: 0.8420954337473153

Class p3:

Precision: 0.39514978601997147 Recall: 0.212913143735588 F1 Score: 0.27672327672327673

Class p4:

Precision: 0.6182152713891444 Recall: 0.6406101048617732 F1 Score: 0.6292134831460674