PAC(Passive Aggressive Classifier)
Raw data

```
              precision    recall  f1-score   support

 integration       0.00      0.00      0.00         0
   objective       0.97      0.45      0.61       729
     quality       0.02      0.42      0.04        12
 refactoring       0.00      0.00      0.00         0
     testing       0.14      0.44      0.21        27


    accuracy                           0.45       768
   macro avg       0.23      0.26      0.17       768
weighted avg       0.92      0.45      0.59       768



Process finished with exit code 0
```

After dropping duplicates

```
              precision    recall  f1-score   support

 integration       0.23      0.05      0.08        59
   objective       0.91      0.38      0.54       624
     quality       0.01      0.75      0.03         4
 refactoring       0.00      0.00      0.00         0
     testing       0.14      0.41      0.21        29


    accuracy                           0.36       716
   macro avg       0.26      0.32      0.17       716
weighted avg       0.81      0.36      0.49       716



Process finished with exit code 0
```

SVM

```
              precision    recall  f1-score   support

 integration       0.08      0.50      0.13         2
   objective       0.95      0.38      0.54       661
     quality       0.04      0.53      0.08        19
 refactoring       0.00      0.00      0.00         0
     testing       0.17      0.44      0.25        34

    accuracy                           0.39       716
   macro avg       0.25      0.37      0.20       716
weighted avg       0.88      0.39      0.51       716


Process finished with exit code 0
```

NB

```
              precision    recall  f1-score   support

 integration       0.15      0.01      0.02       189
   objective       0.25      0.43      0.31       155
     quality       0.26      0.33      0.29       184
 refactoring       0.00      0.00      0.00         4
     testing       0.24      0.11      0.15       184

    accuracy                           0.21       716
   macro avg       0.18      0.18      0.16       716
weighted avg       0.22      0.21      0.19       716


Process finished with exit code 0
```

DTC

	precision	recall	f1-score	support
integration	0.08	0.09	0.08	11
objective	0.60	0.39	0.47	402
quality	0.40	0.38	0.39	245
refactoring	0.05	1.00	0.10	6
testing	0.23	0.38	0.29	52
accuracy			0.39	716
macro avg	0.27	0.45	0.27	716
weighted avg	0.49	0.39	0.42	716

AdaBoost

	precision	recall	f1-score	support
integration	0.15	0.13	0.14	15
objective	0.29	0.36	0.32	215
quality	0.59	0.37	0.45	375
refactoring	0.07	0.47	0.12	17
testing	0.46	0.43	0.44	94
accuracy			0.37	716
macro avg	0.31	0.35	0.30	716
weighted avg	0.46	0.37	0.40	716

SGD

	precision	recall	f1-score	support
integration	0.31	0.05	0.09	80
objective	0.36	0.40	0.38	237
quality	0.50	0.34	0.41	339
refactoring	0.02	0.40	0.03	5
testing	0.24	0.38	0.30	55
accuracy			0.33	716
macro avg	0.28	0.31	0.24	716
weighted avg	0.41	0.33	0.35	716

SVM (with sampling)

	precision	recall	f1-score	support
integration	0.00	0.00	0.00	0
objective	0.99	0.44	0.61	755
quality	0.01	0.40	0.02	5
refactoring	0.00	0.00	0.00	0
testing	0.04	0.38	0.06	8
accuracy			0.44	768
macro avg	0.21	0.24	0.14	768
weighted avg	0.97	0.44	0.60	768