KFold splitting

```
kf = KFold(n_splits=5, shuffle=True, random_state=22)
```

SGDClassifier

```
Pipeline(steps=[('ss', StandardScaler()),
                ('classifier',
                 OneVsRestClassifier(estimator=SGDClassifier(alpha=0.004,
                                                             eta0=0.002,
                                                             learning_rate='constant',
                                                             loss='log',
                                                             max_iter=25000,
                                                             n_jobs=-1,
                                                             random_state=34),
                                     n_jobs=-1))])
```

LogisticRegression

```
Pipeline(steps=[('ss', StandardScaler()),
                ('classifier',
                 OneVsRestClassifier(estimator=LogisticRegression(multi_class='multinomial',
                                                                  n_jobs=-1,
                                                                  random_state=34),
                                     n_jobs=-1))])
```

XGBoostClassifier

```
Pipeline(steps=[('ss', StandardScaler()),
                ('classifier',
                 OneVsRestClassifier(estimator=XGBClassifier(base_score=None,
                                                             booster='gbtree',
                                                             colsample_bylevel=None,
                                                             colsample_bynode=None,
                                                             colsample_bytree=None,
                                                             gamma=None,
                                                             gpu_id=None,
                                                             importance_type='gain',
                                                             interaction_constraints=None,
                                                             learning_rate=0.1,
                                                             max_delta_step=None,
                                                             max_depth=10,
                                                             min_child_weight=None,
                                                             missing=nan,
                                                             monotone_constraints=None,
                                                             n_estimators=200,
                                                             n_jobs=-1,
                                                             num_parallel_tree=None,
                                                             random_state=34,
                                                             reg_alpha=None,
                                                             reg_lambda=None,
                                                             scale_pos_weight=None,
                                                             subsample=None,
                                                             tree_method='hist',
                                                             validate_parameters=None,
                                                             verbosity=None),
                                     n_jobs=-1))])
```

RandomForestClassifier

```
Pipeline(steps=[('ss', StandardScaler()),
                ('classifier',
                 OneVsRestClassifier(estimator=RandomForestClassifier(max_depth=10,
                                                                      n_estimators=200,
                                                                      n_jobs=-1,
                                                                      random_state=34),
                                     n_jobs=-1))])
```