

TESTES DE MÉTODOS DE *OVERSAMPLING* PARA *DATASETS* DESBALANCEADOS

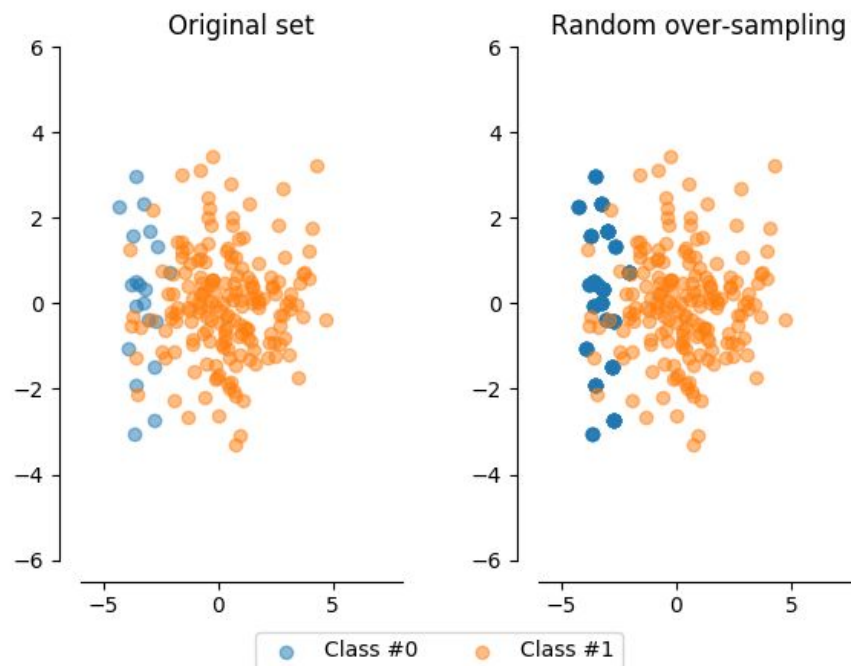
Este documento contém resultados de testes de aplicação de métodos de *oversampling* utilizando a biblioteca **imbalanced-learn**

(<https://github.com/scikit-learn-contrib/imbalanced-learn>) na linguagem Python em *dataset* desbalanceado com 2 classes (#0 e #1) gerado pela própria plataforma scikit-learn através `sklearn.datasets.make_classification`.

Os métodos testados para *oversampling* foram 6, sendo 4 deles variações do algoritmo SMOTE. São eles:

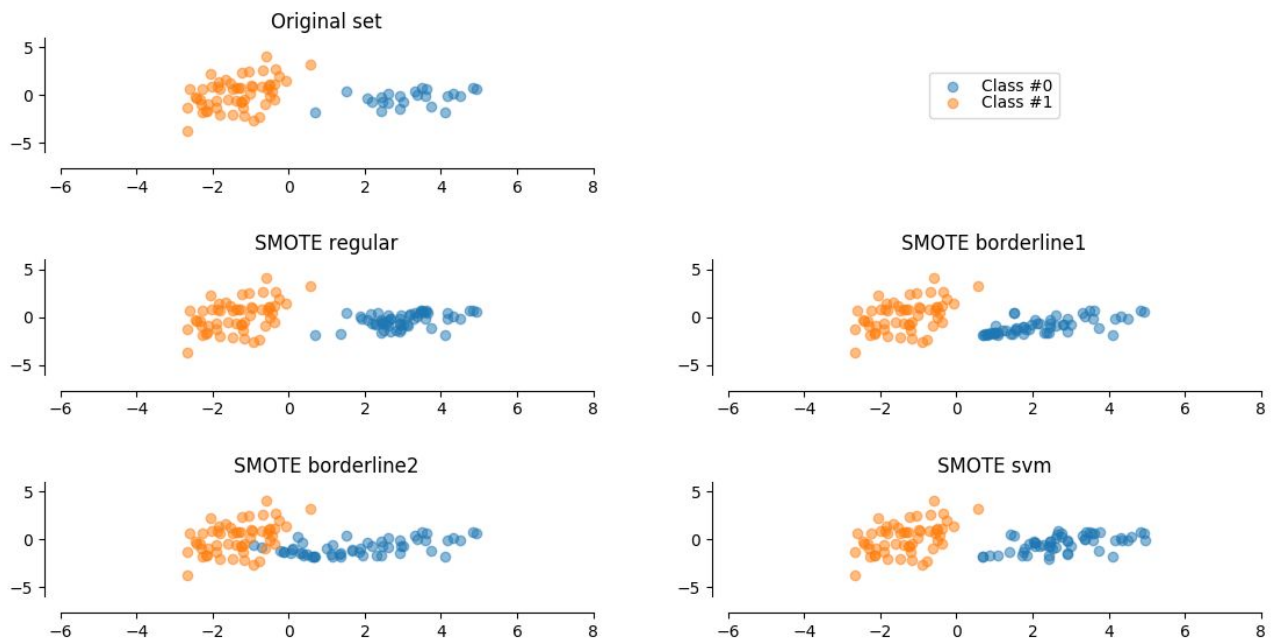
1. Random minority over-sampling with replacement

- http://contrib.scikit-learn.org/imbalanced-learn/generated/imblearn.over_sampling.RandomOverSampler.html



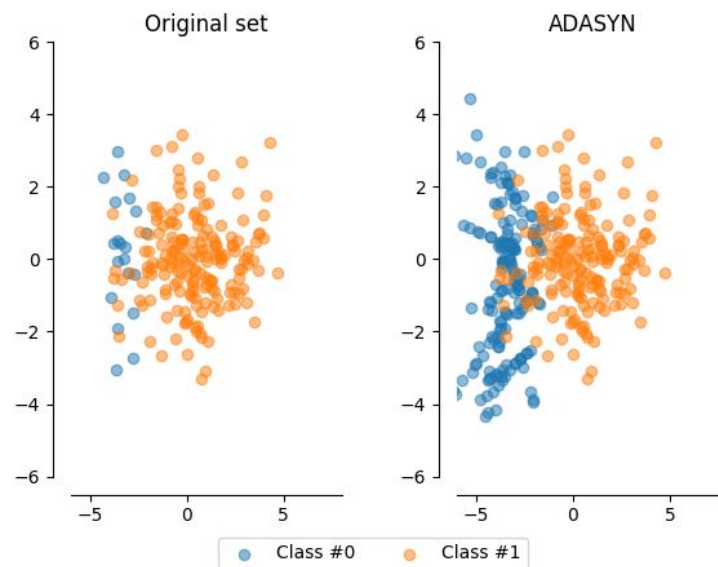
2. SMOTE - Synthetic Minority Over-sampling Technique
3. bSMOTE(1 & 2) - Borderline SMOTE of types 1 and 2
4. SVM SMOTE - Support Vectors SMOTE

- http://contrib.scikit-learn.org/imbalanced-learn/generated/imblearn.over_sampling.SMOTE.html



5. ADASYN - Adaptive synthetic sampling approach for imbalanced learning

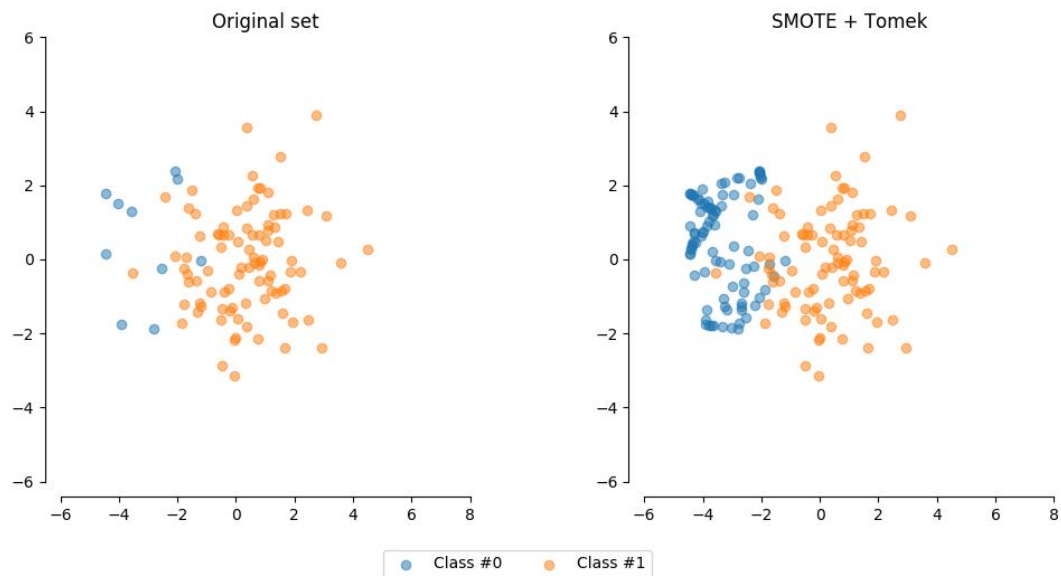
- http://contrib.scikit-learn.org/imbalanced-learn/generated/imblearn.over_sampling.ADASYN.html



Os métodos testados para *oversampling* com *undersampling* foram 2, com ambos os métodos utilizando SMOTE:

1. SMOTE + Tomek links

- http://contrib.scikit-learn.org/imbalanced-learn/generated/imblearn.combine.SMOTE_Tomek.html



2. SMOTE + ENN

- http://contrib.scikit-learn.org/imbalanced-learn/generated/imblearn.combine.SMOTE_ENN.html

