## Unbalanced multiclass data with XGBoost

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## For sklearn version < 0.19

Just assign each entry of your train data its class weight. First get the class weights with class\_weight.compute\_class\_weight of sklearn then assign each row of the train data its appropriate weight.

I assume here that the train data has the column <code>class</code> containing the class number. I assumed also that there are <code>nb\_classes</code> that are from 1 to <code>nb\_classes</code>.

## **Update for sklearn version >= 0.19**

There is simpler solution

```
from sklearn.utils import class_weight
classes_weights = class_weight.compute_sample_weight(
    class_weight='balanced',
    y=train_df['class']
)
xgb_classifier.fit(X, y, sample_weight=classes_weights)
```