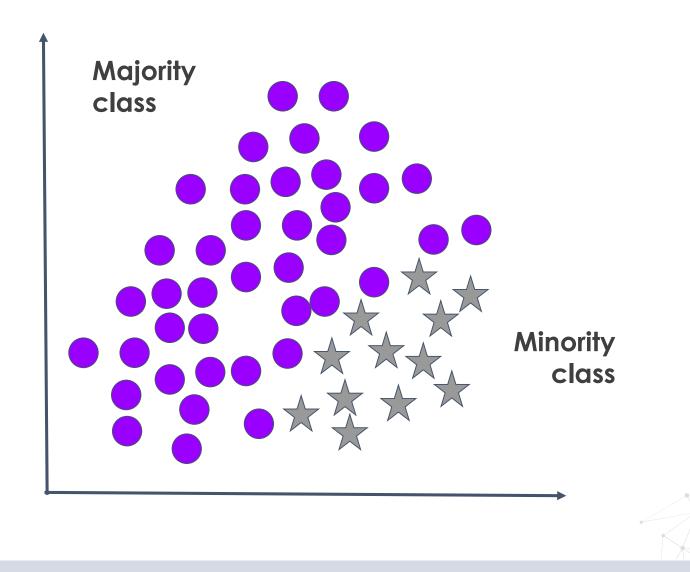


If 2 samples are nearest neighbours, and from a different class, they are Tomek Links.

Removes the Tomek Link from the majority class

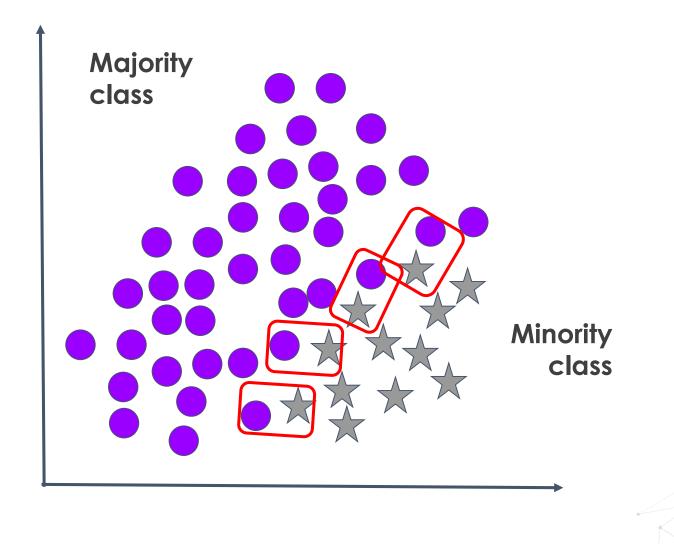
- Cleaning
- Final dataset shape varies
- Boundary is noise





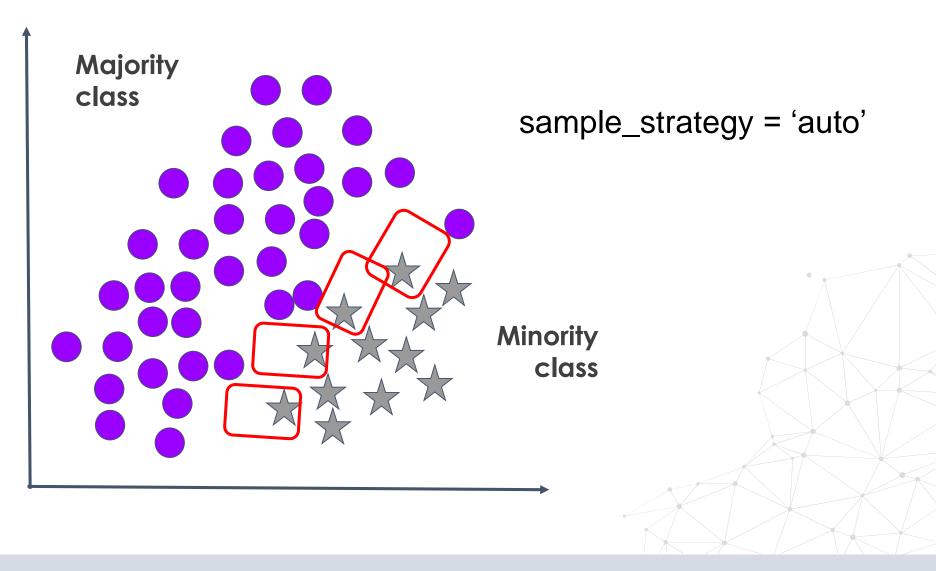


Find Tomek Links

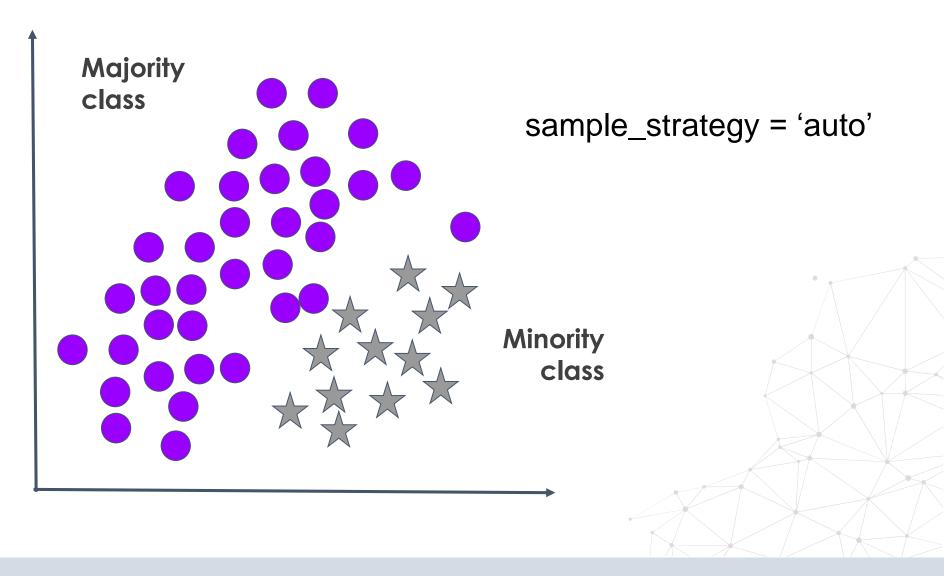




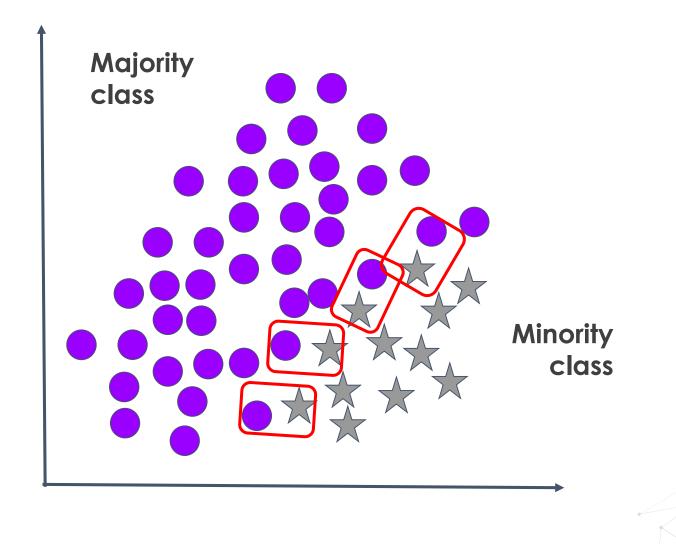
Remove observation from majority class in Tomek Link



Remove observation from majority class in Tomek Link

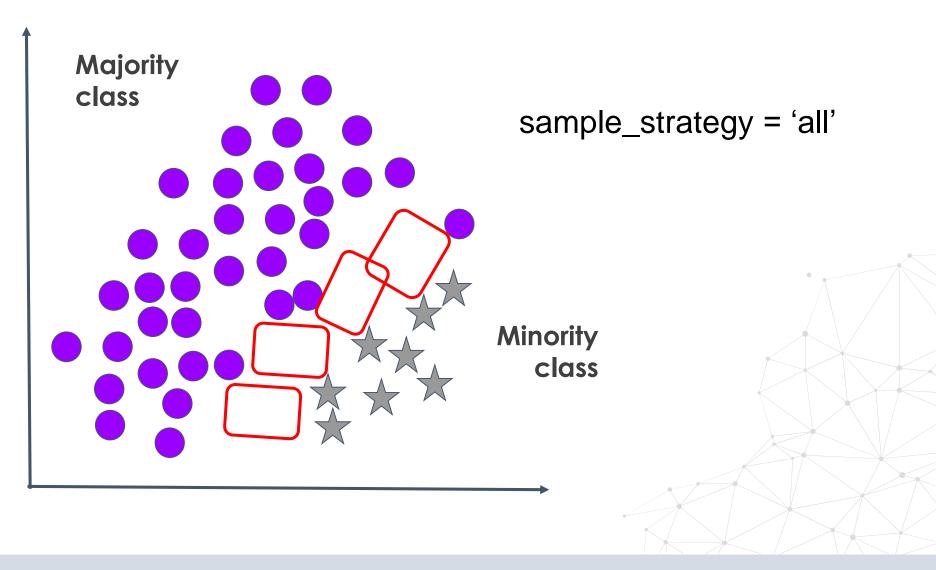


Find Tomek Links

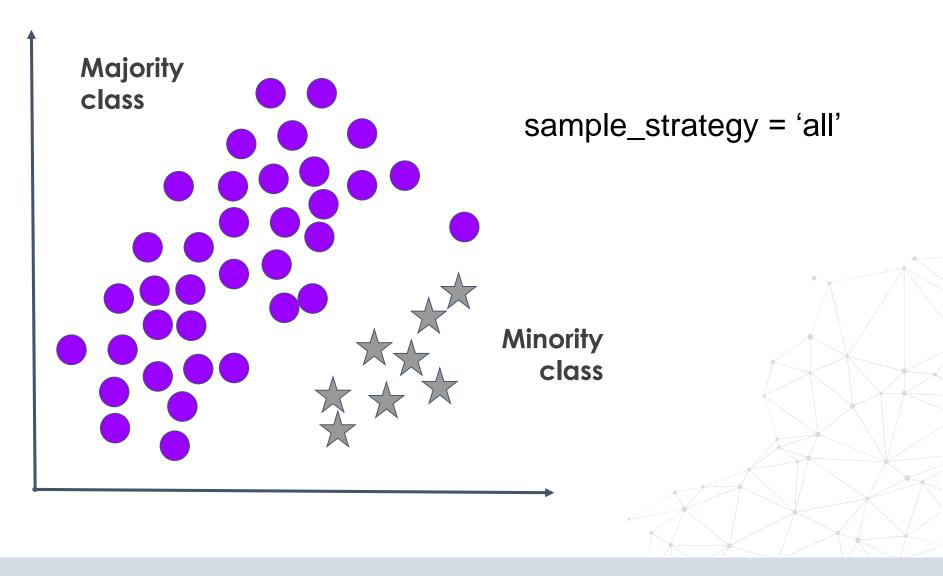


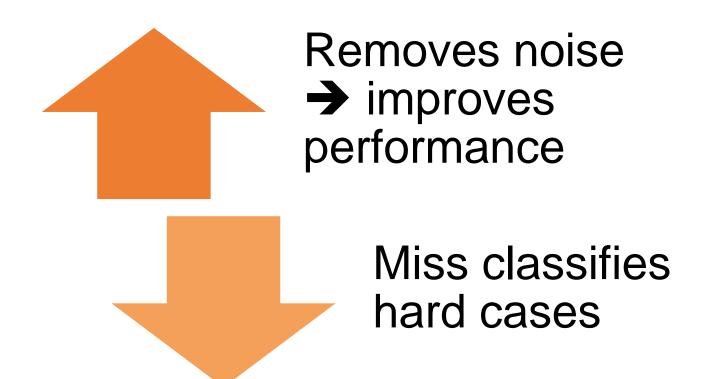


Remove entire Tomek Link



Remove entire Tomek Link







#### Imbalanced-learn: Tomek Links

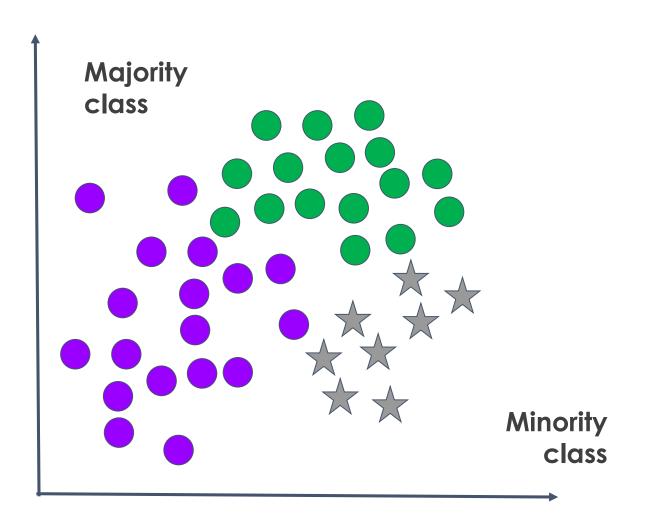
```
# create data
X, y = make_data(sep=0.5)

# set up Tomek Links

tl = TomekLinks(
    sampling_strategy='auto', # undersamples only the majority class
    n_jobs=4) # I have 4 cores in my laptop

X_resampled, y_resampled = tl.fit_resample(X, y)
```

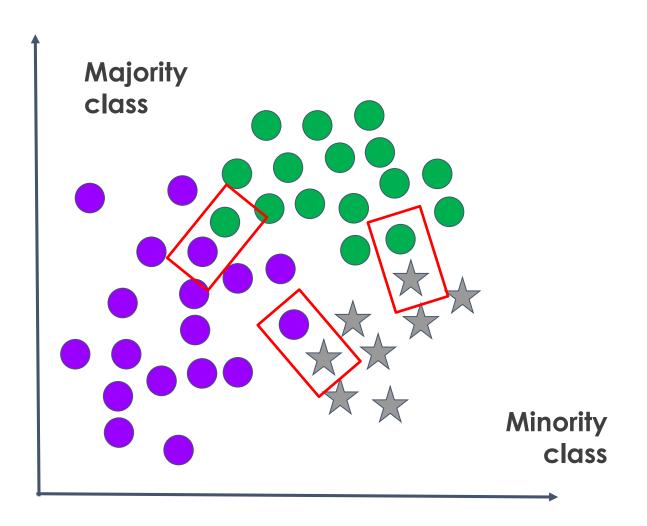




One vs Rest



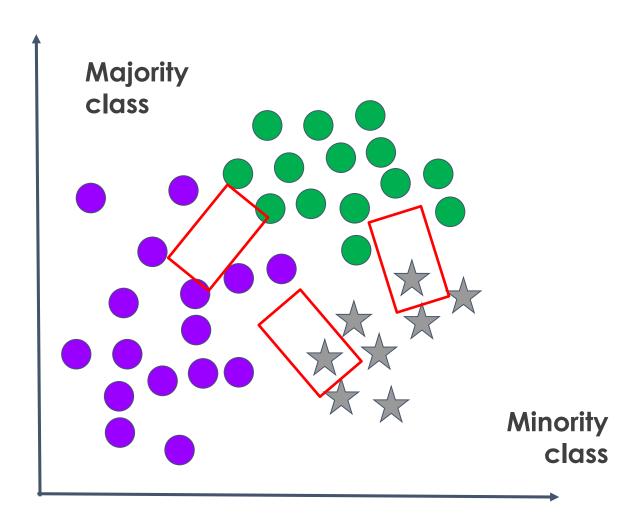




One vs Rest

Find Tomek Link

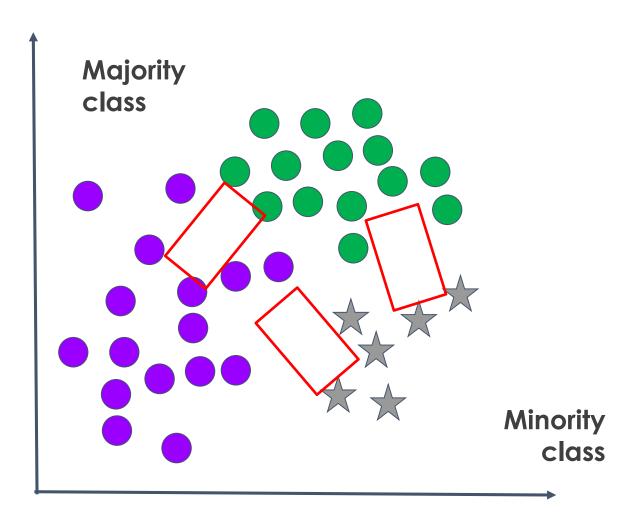




One vs Rest

Remove sample from majority.





One vs Rest

Remove entire Link.





# THANK YOU

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