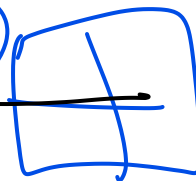
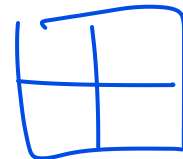
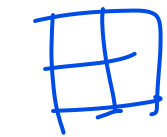


~~prec~~ ①
②
③
④

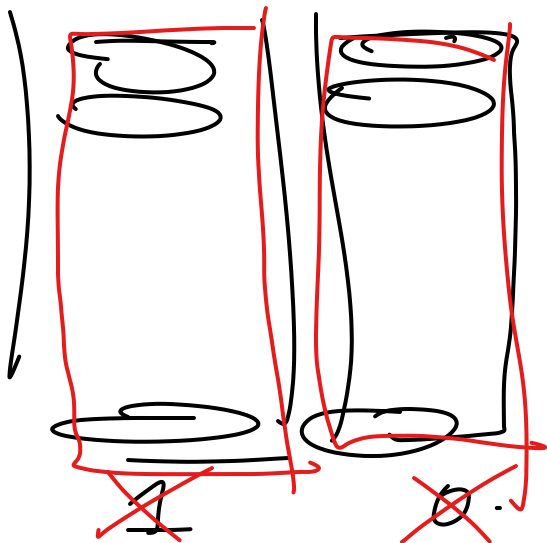
recall ①
②
③
④

thres ①
thres ②
thres ③
.
.
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thres ④



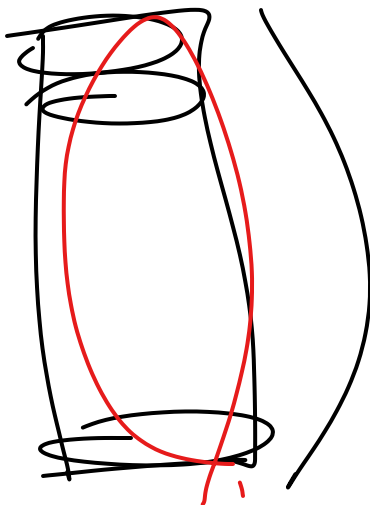
①

②



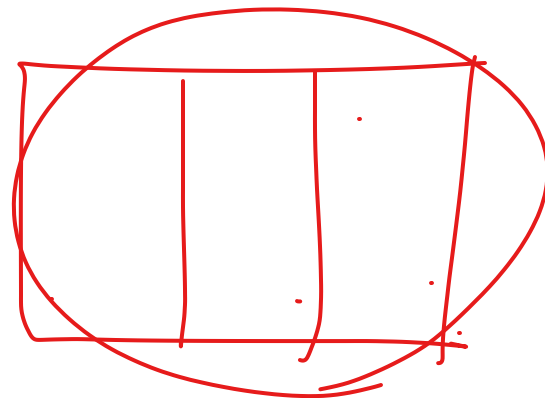
101

101

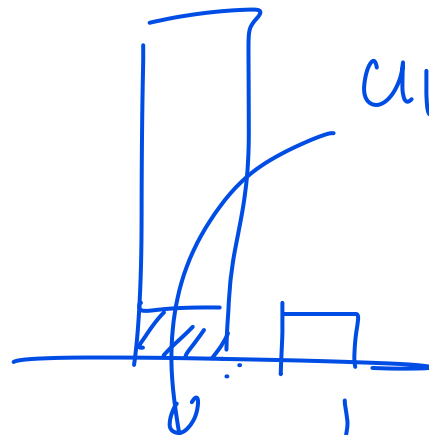


100

100



0 95%
1 5%



under sampling -

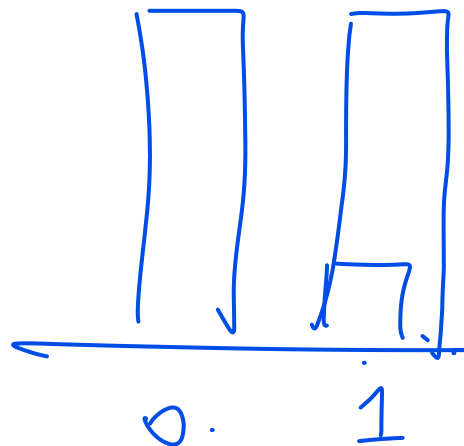
- random.

- Tomek's link

- CNN

- OSS

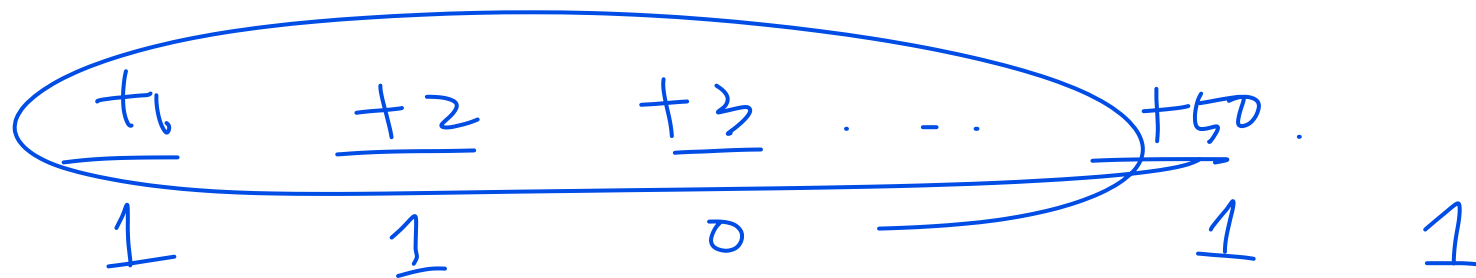
...



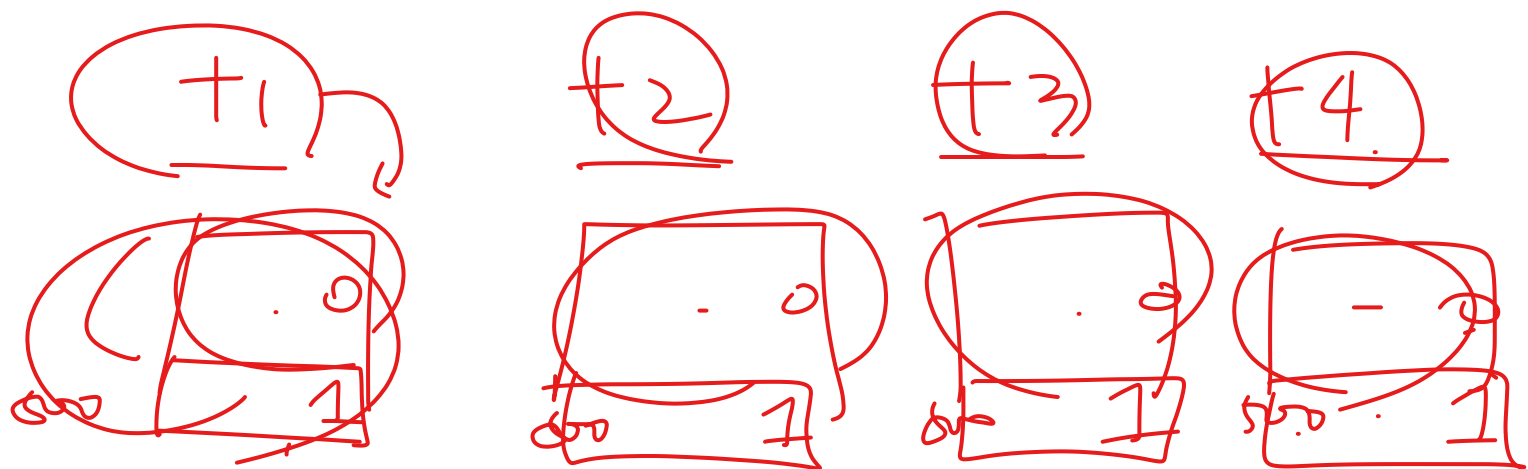
over sampling -

✓ SMOTE
✓ ADASYN

o 양양

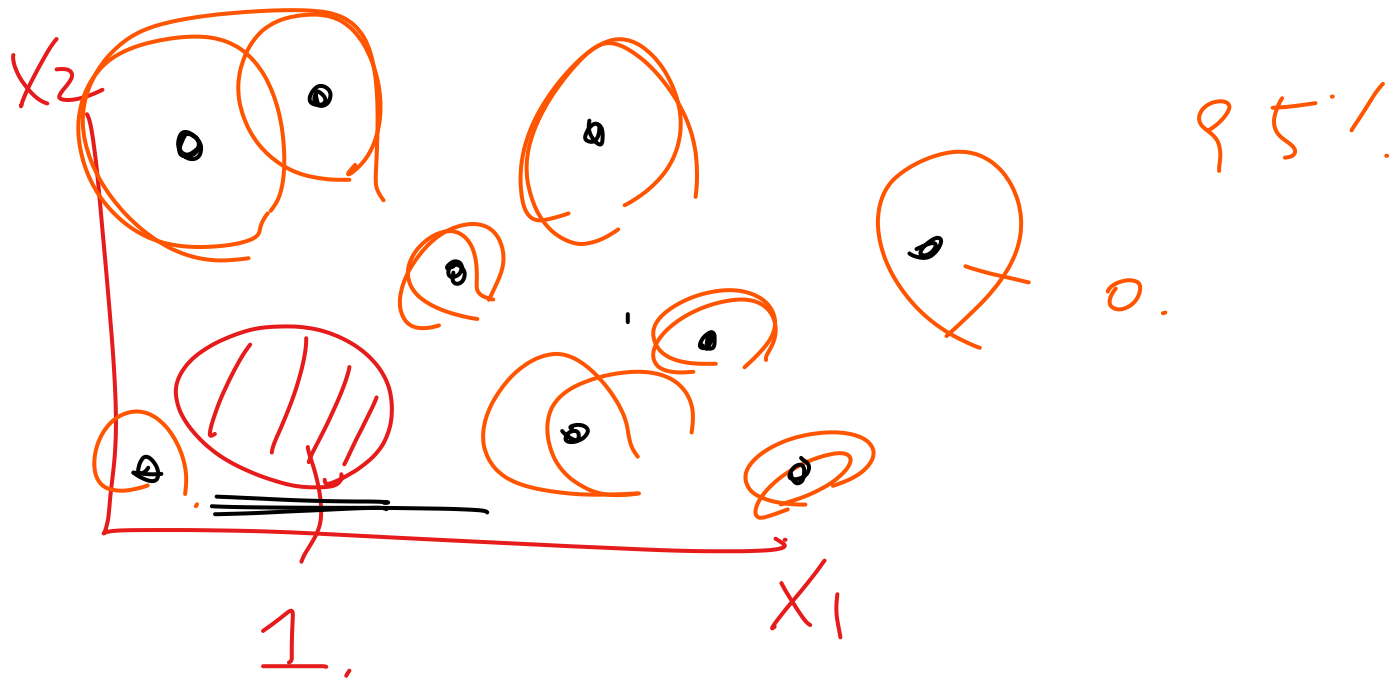
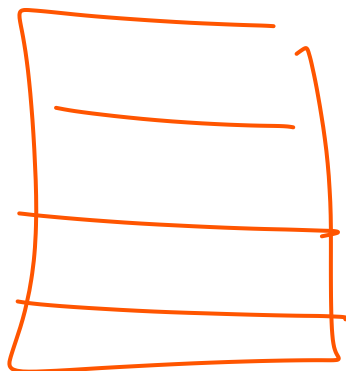


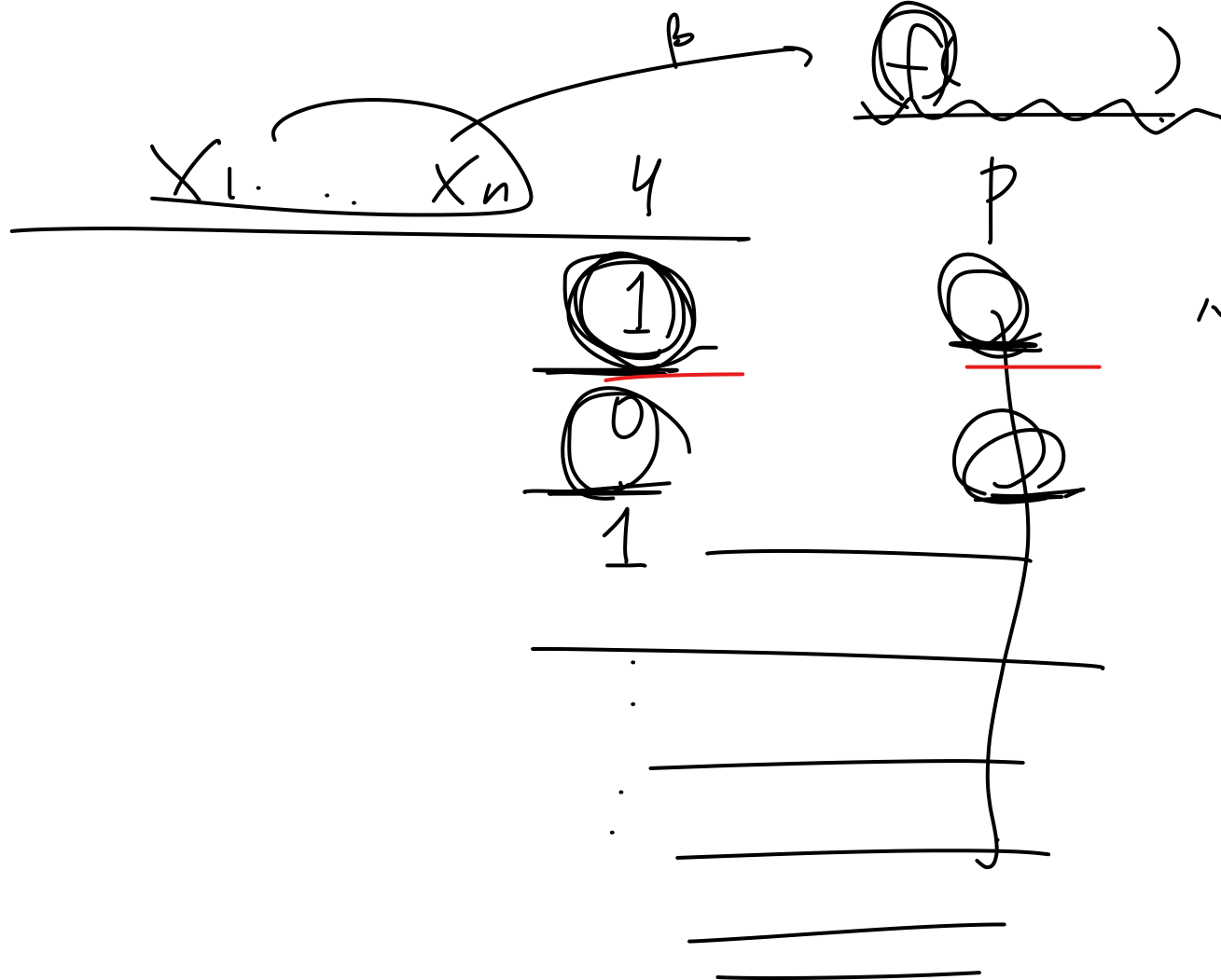
0 : 95%
1 : 5%



M.

• clustering.





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