Predict Diabetes

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Predict Diabetes

Data Card   Code (38)   Discussion (1)

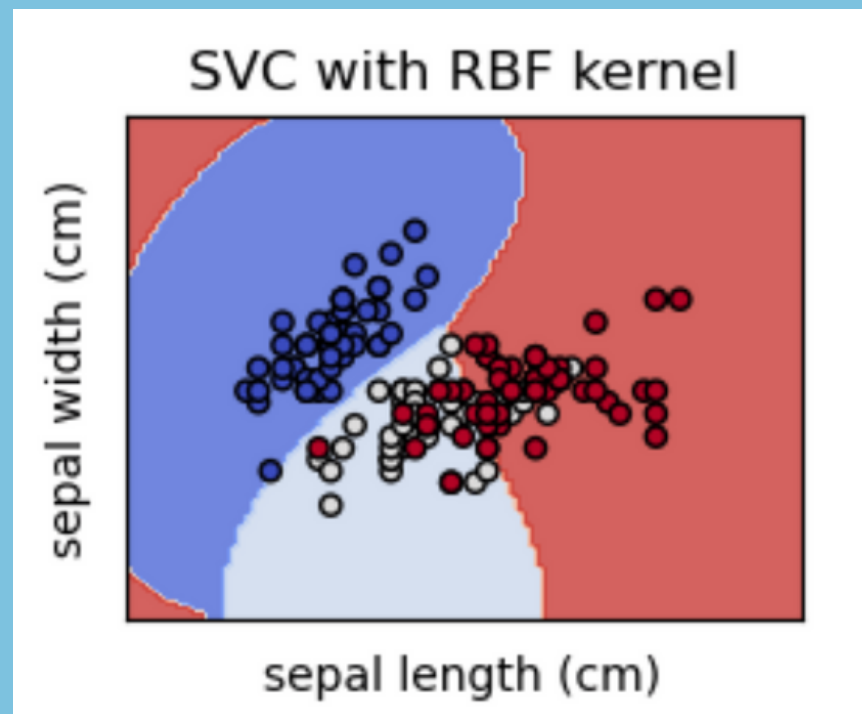▲ 117   New Notebook   ⬇ Download (9 kB)

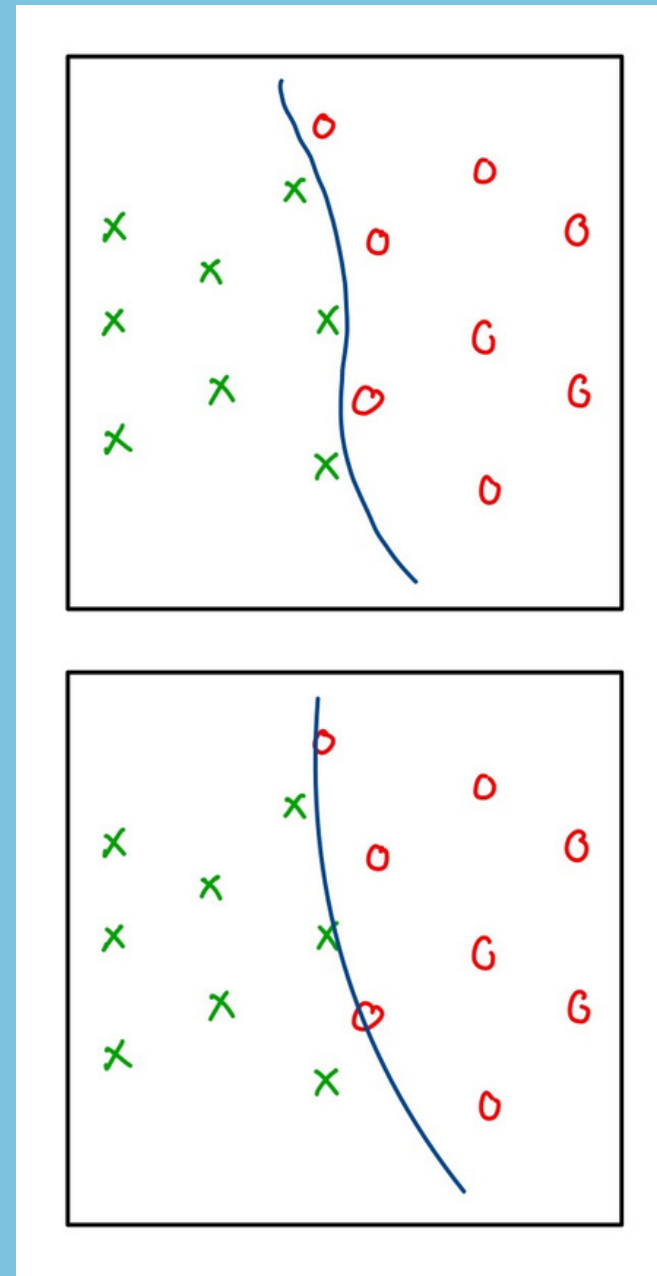| Columns	Description
Pregnancies	To express the Number of pregnancies
Glucose	To express the Glucose level in blood
BloodPressure	To express the Blood pressure measurement
SkinThickness	To express the thickness of the skin
Insulin	To express the Insulin level in blood
BMI	To express the Body mass index
DiabetesPedigreeFunction	To express the Diabetes percentage
Age	To express the age
Outcome	To express the final result 1 is Yes and 0 is No

768 rows × 9 columns

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kaggle

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Support Vector Machine →

SVC with RBF kernel

sepal width (cm)

sepal length (cm)
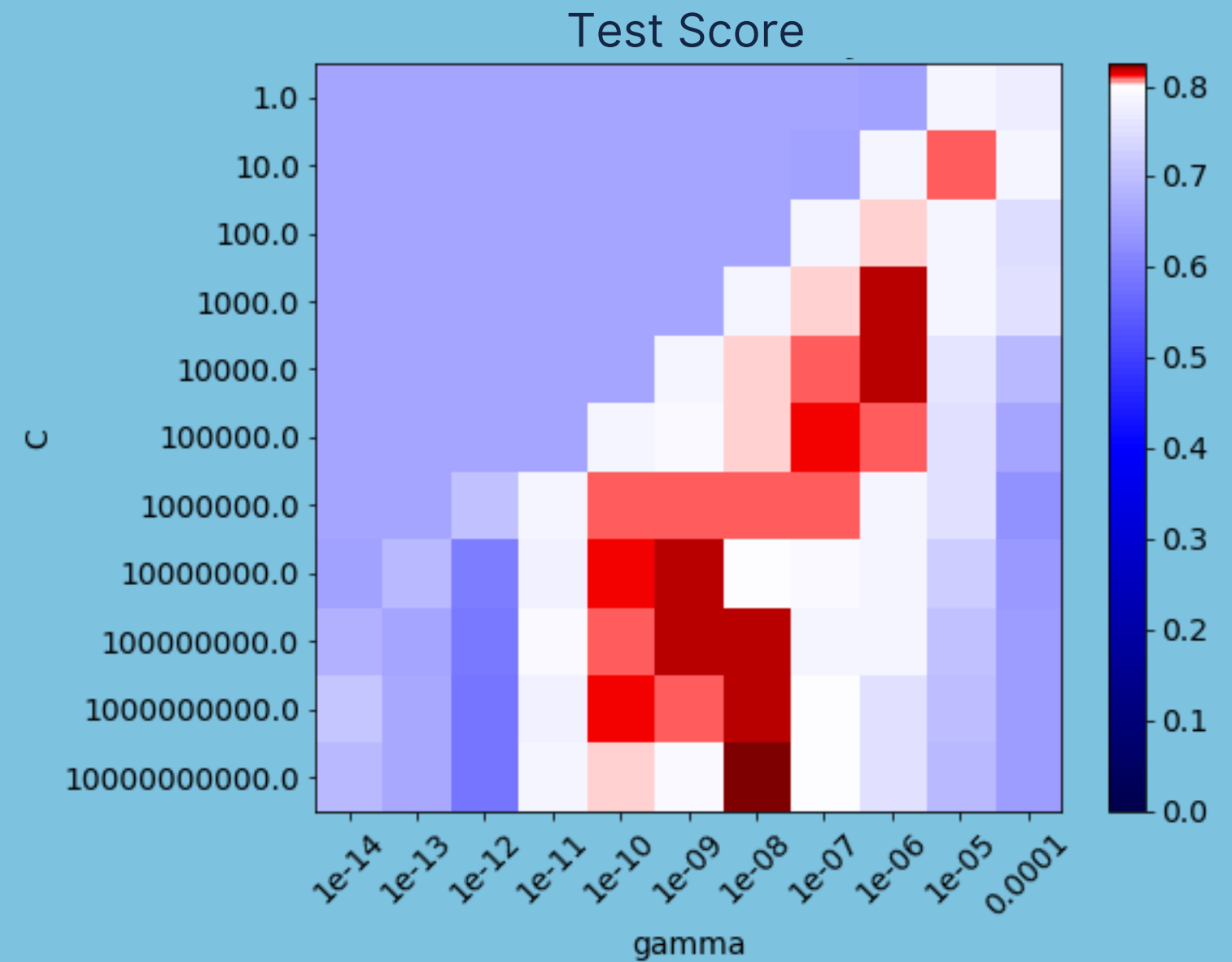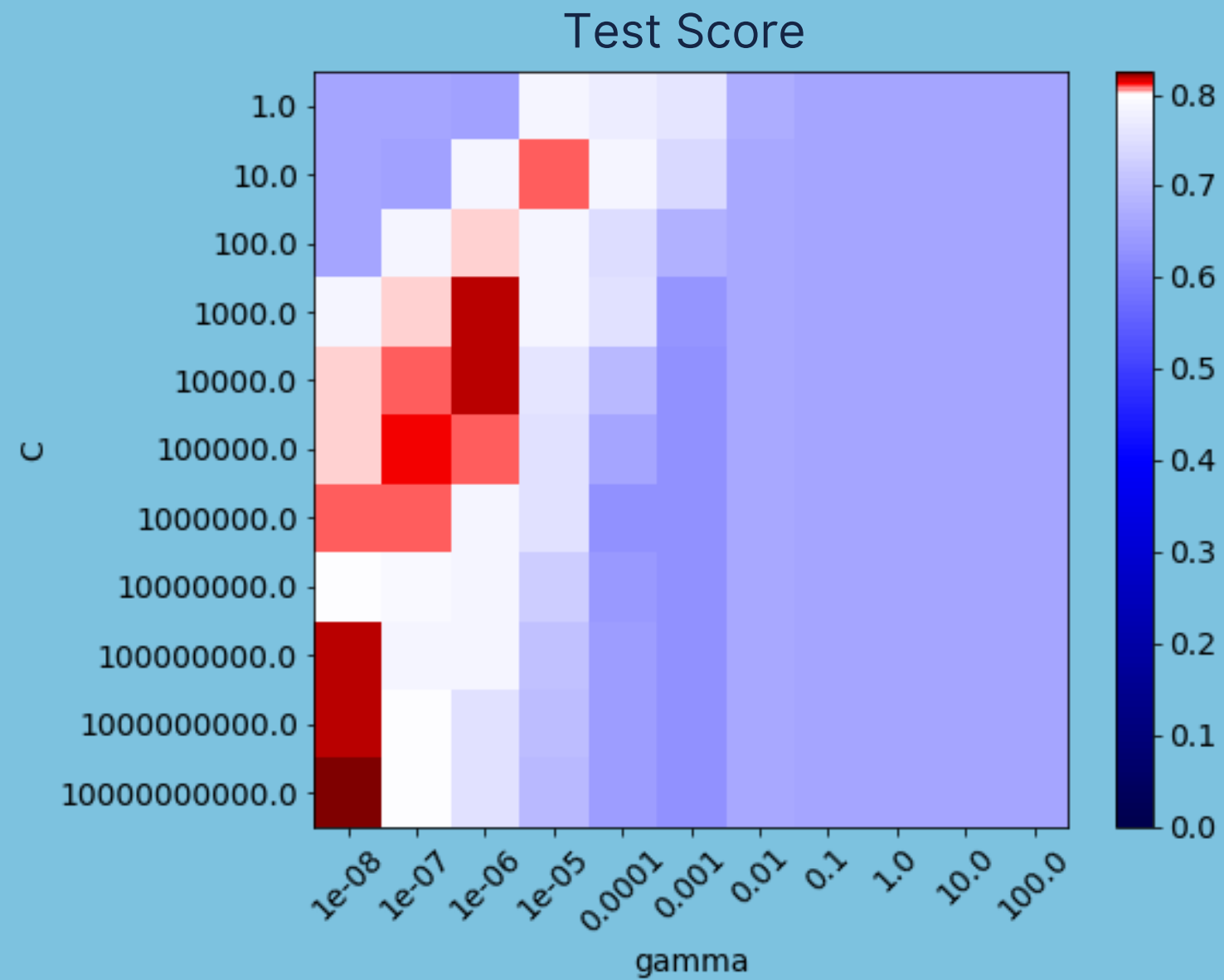
REF : HTTPS://SCIKIT-LEARN.ORG/STABLE/MODULES/SVM.HTML

LOW C

HIGH C

LOW GAMMA
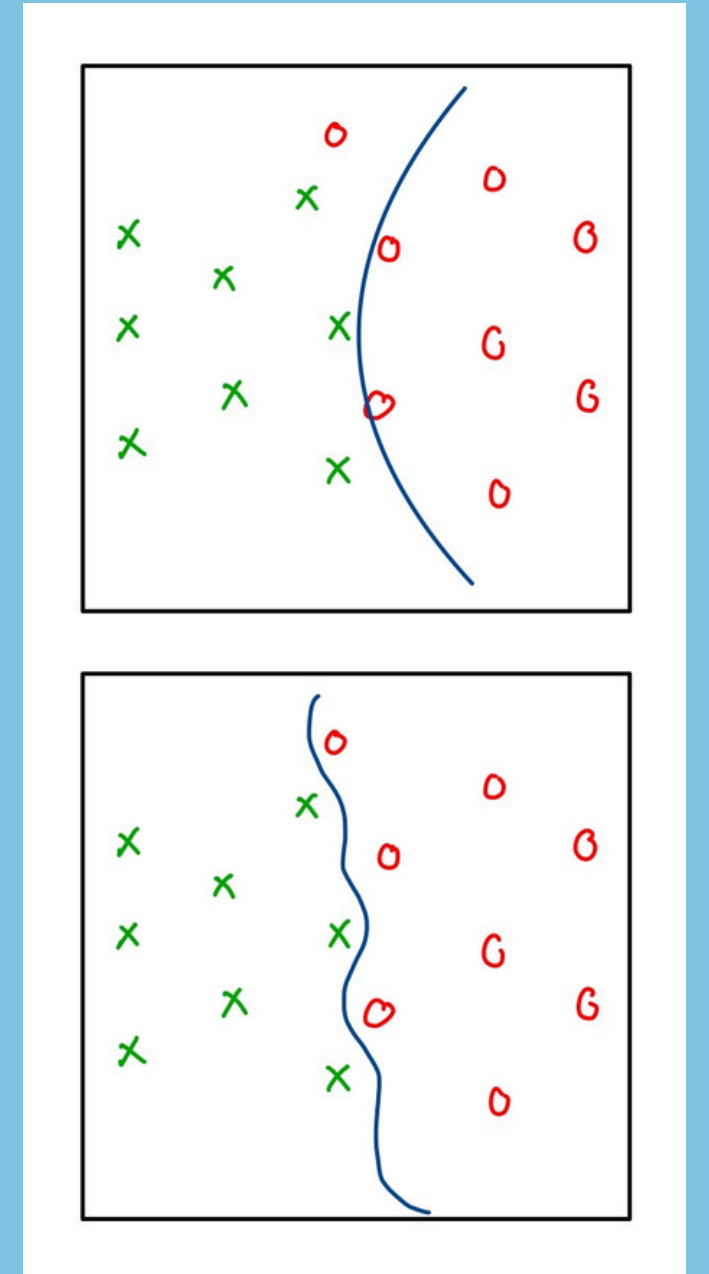
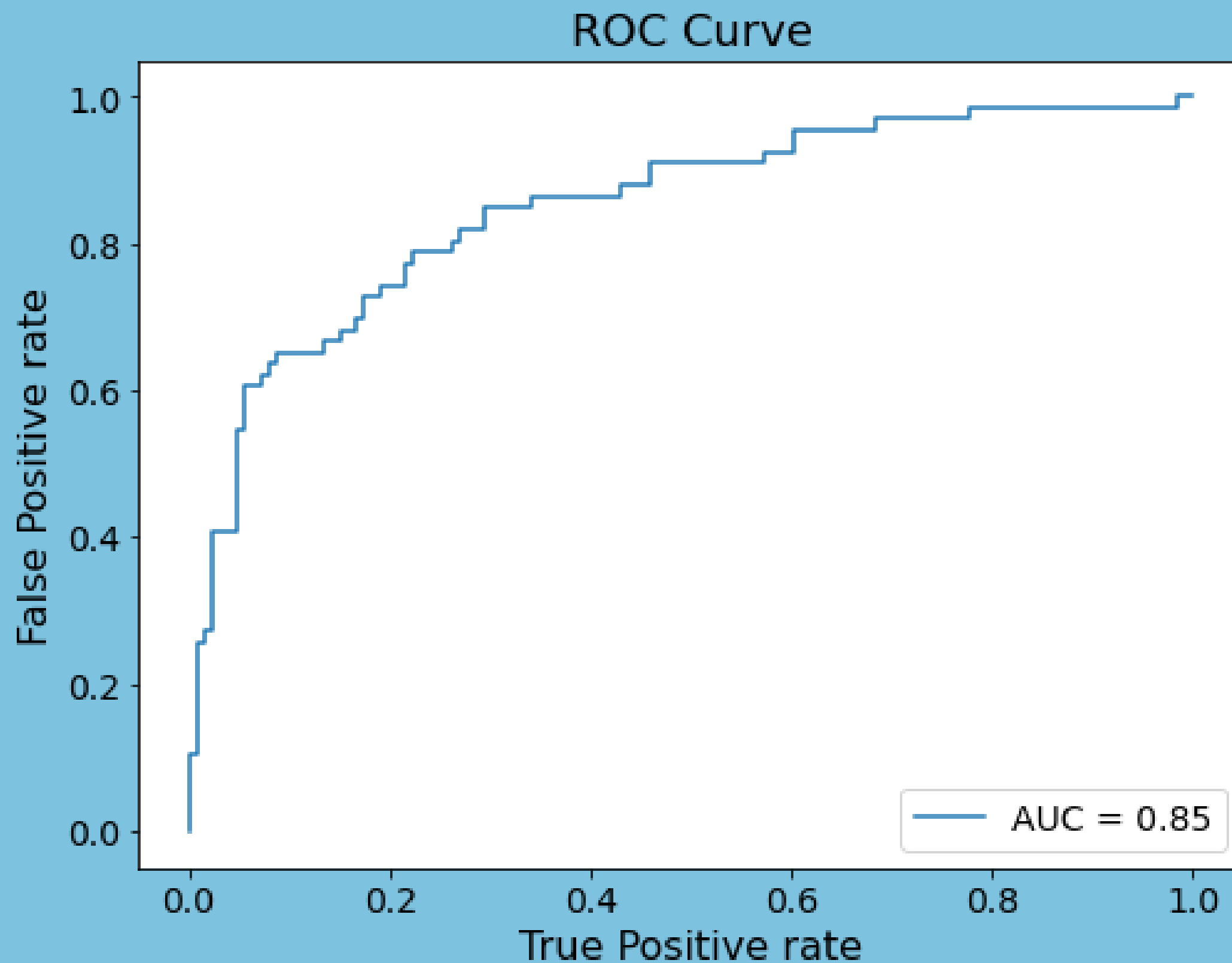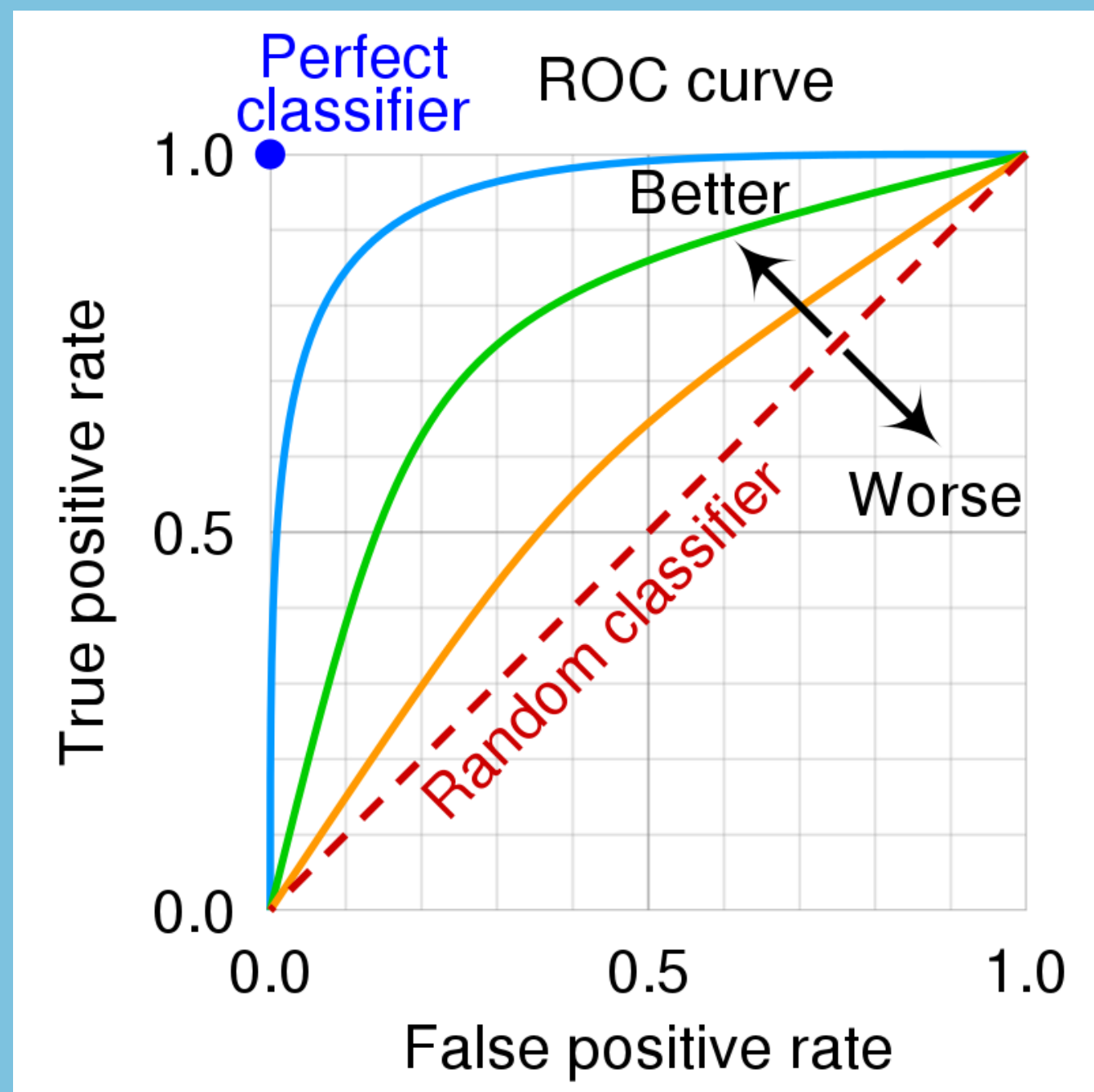HIGH GAMMA

Find C & gamma →

- C=1e10

- gamma=1e-08
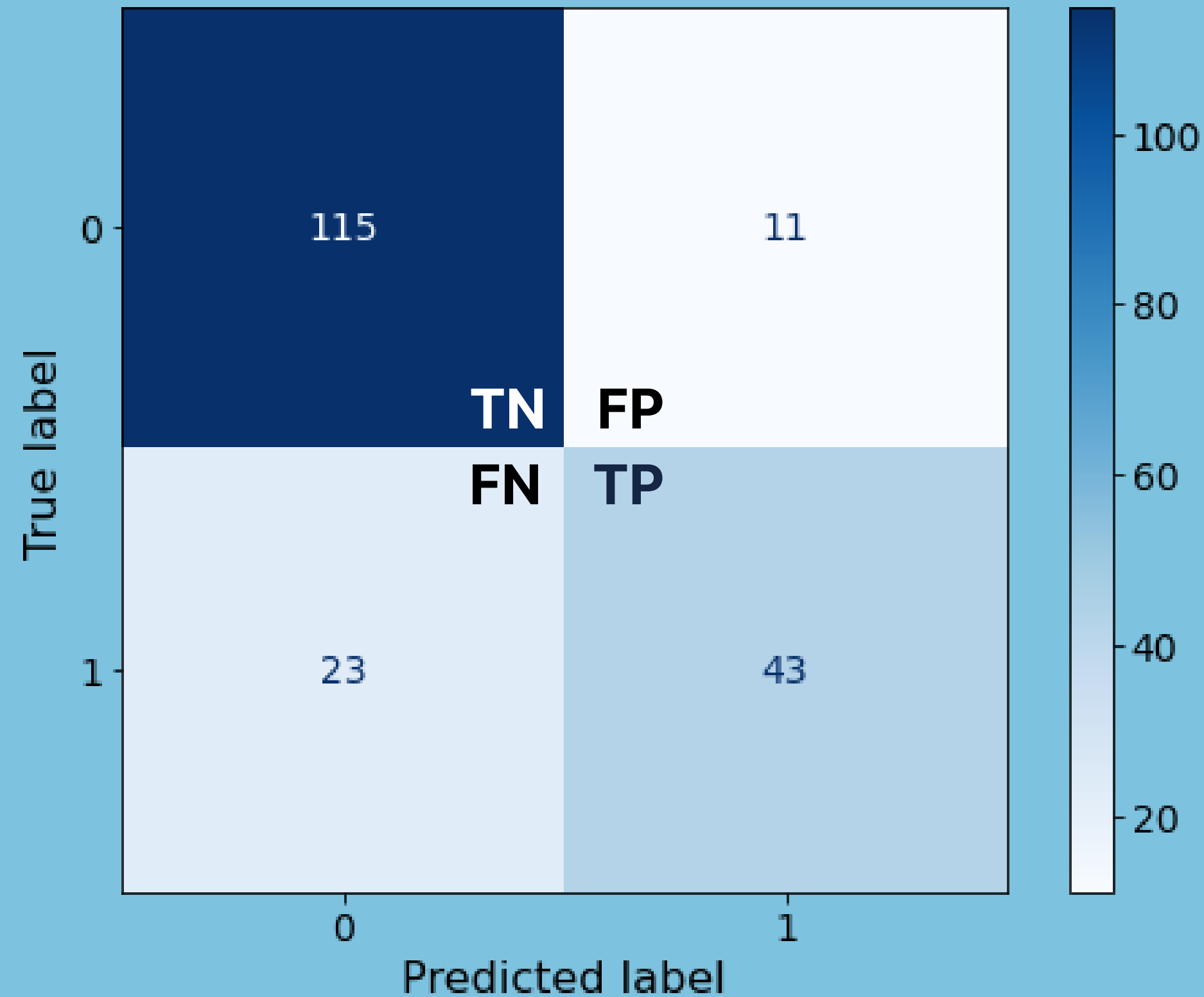
$$\text{Accuracy} = \frac{TN + TP}{TN + FP + FN + TP}$$

$$= \frac{115+43}{192}$$

$$= 0.823$$

$$= 82.3\%$$

Result →

ROC curve

ROC Curve

AUC = 0.85

Result →

Result →