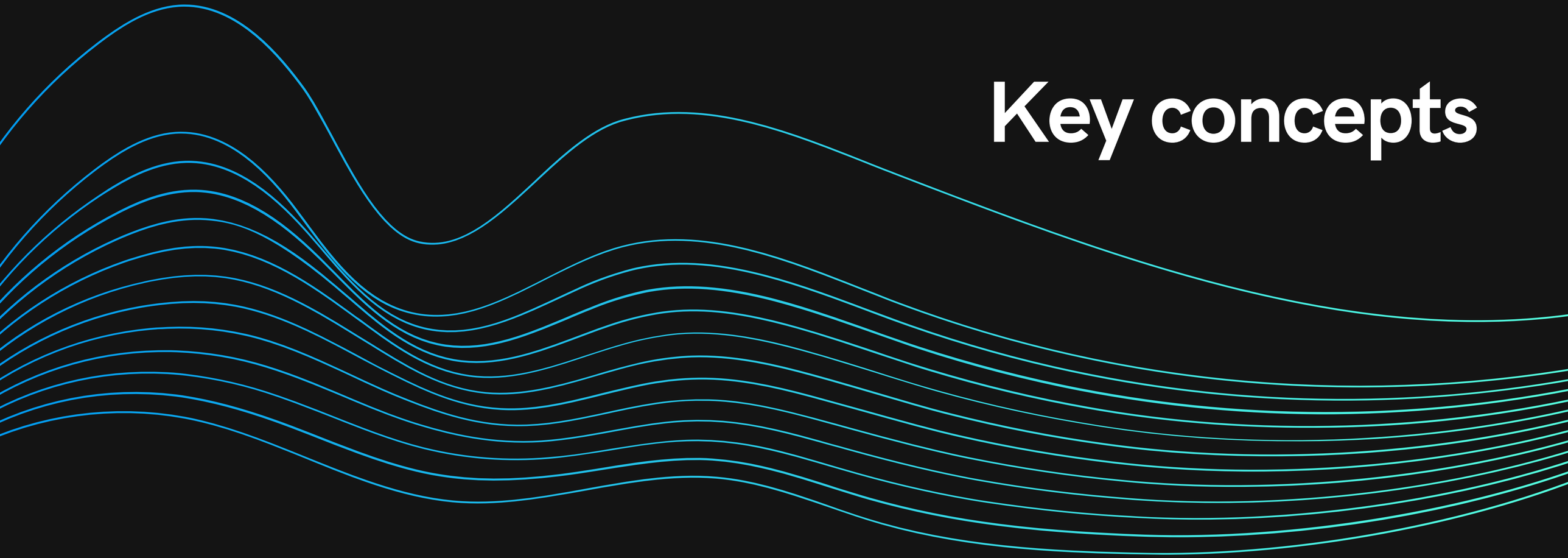
Classification

SUPERVISED LEARNING

Key concepts



FEATURES

Features are the data we use to train our model and predict with.

LABELS

Labels are the ground truth of the train set with which our model will learn.

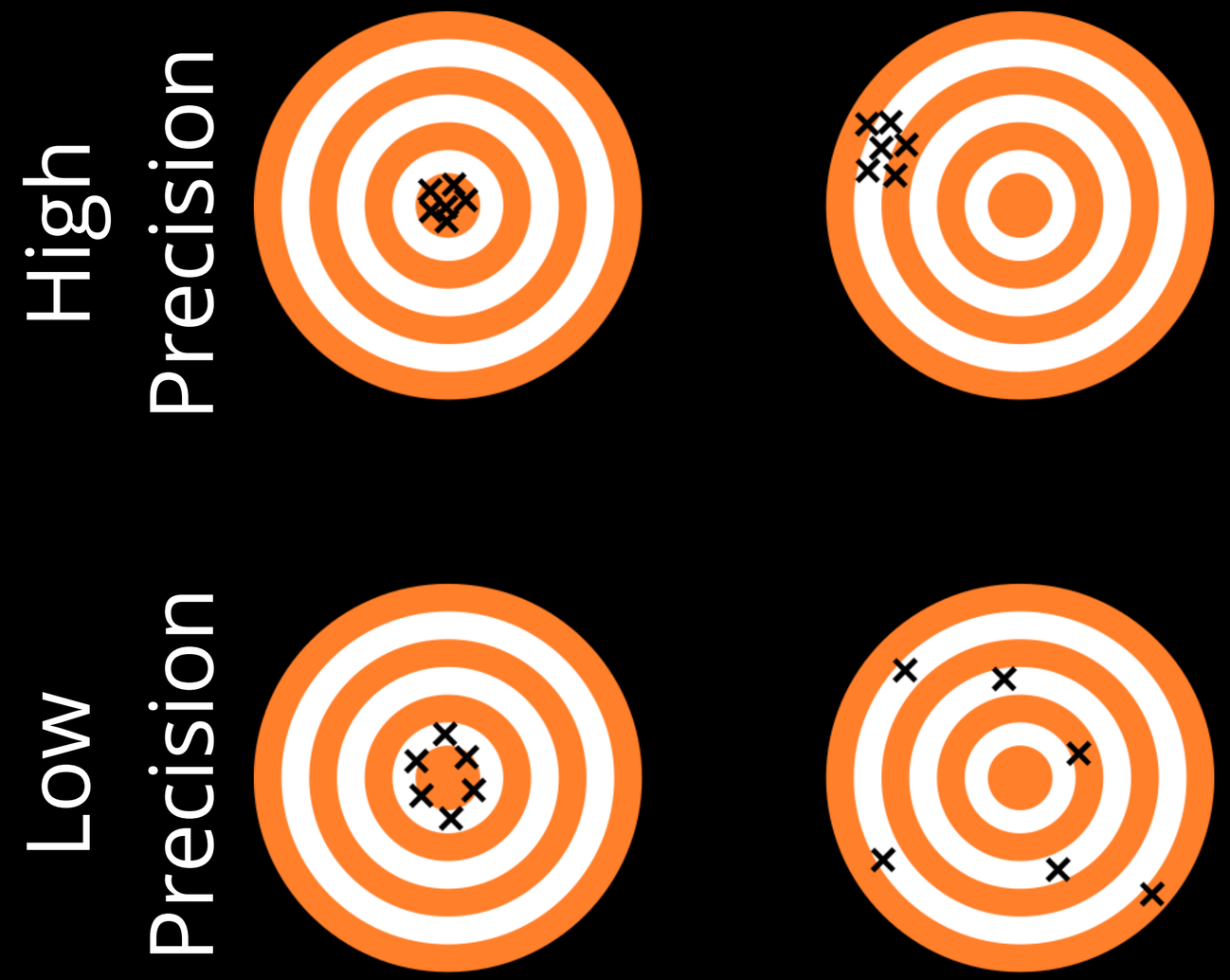
METRICS

In Classification we use different metrics than in Regression.

Classification Metrics

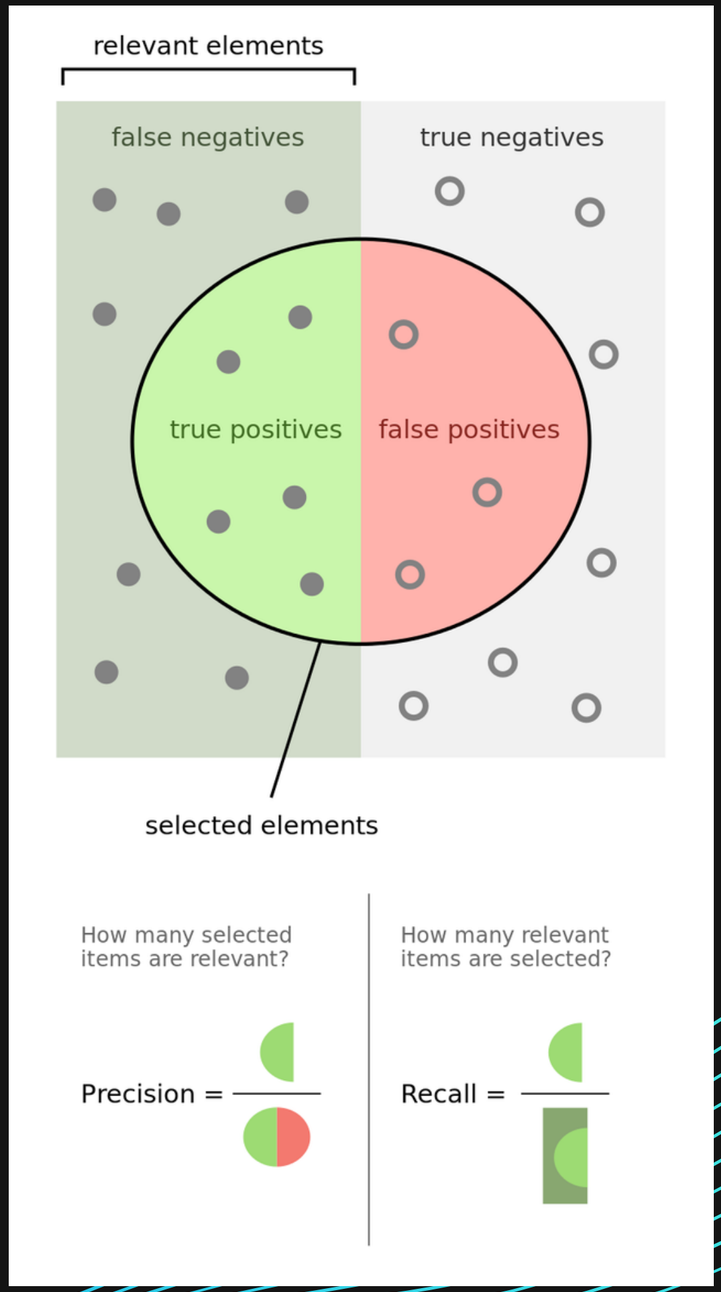
- ACCURACY
- PRECISION
- RECALL
- FSCORE
- CONFUSION MATRIX

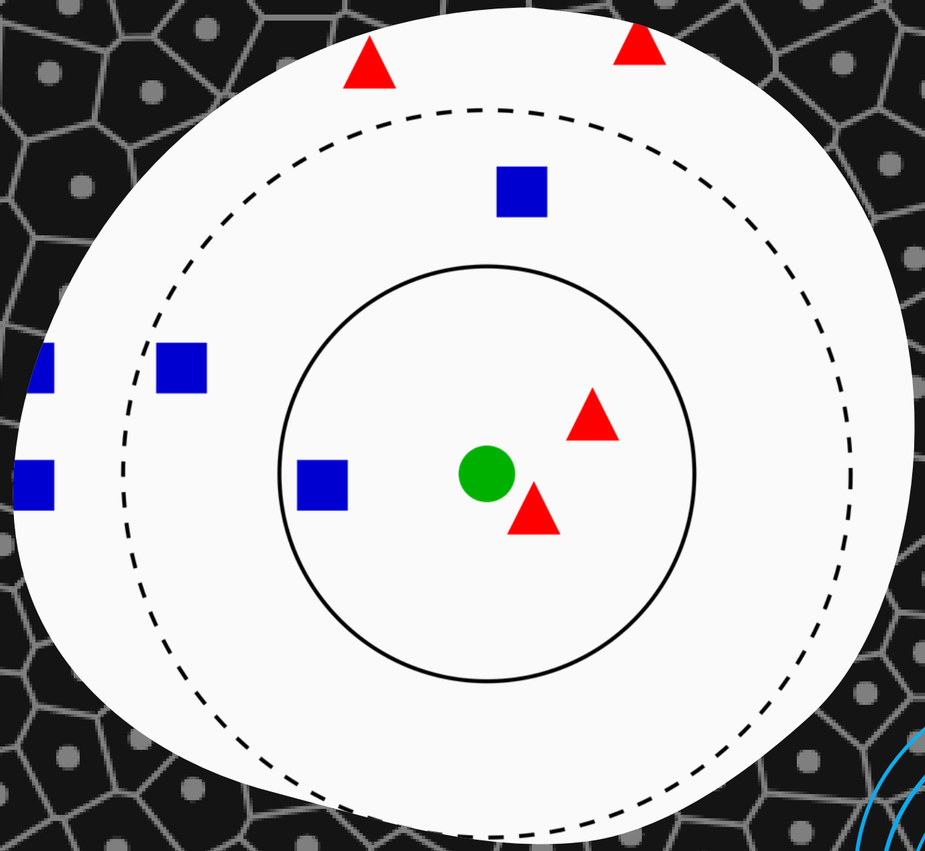
Have I seen this before?



Precision, Recall and F-Score

$$F_1 = 2 \cdot \frac{\mathrm{precision} \cdot \mathrm{recall}}{\mathrm{precision} + \mathrm{recall}} = \frac{\mathrm{TP}}{\mathrm{TP} + \frac{1}{2}(\mathrm{FP} + \mathrm{FN})}$$



KNN

K Nearest Neighbors