

EPOCH is a hyperparameter of Stochastic Gradient Descent method that defines the number of times the learning/optimization algorithm will work through the BATCH SIZE (like that of training dataset/#samples) which is yet another hyperparameter.

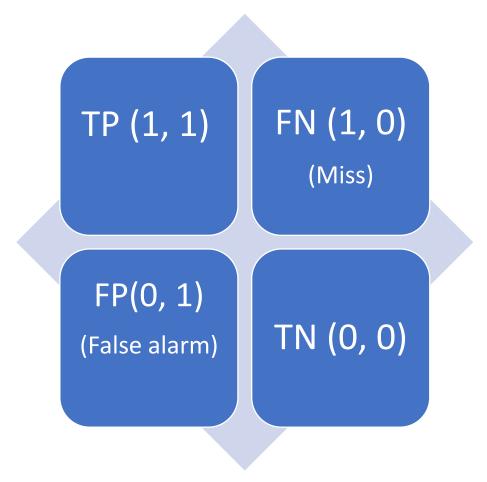
Unsupervised Clustering

Hard clustering (each entity can only belong to 1 cluster)

Soft (Fuzzy) clustering (1 entity can belong to more than 1 cluster)

Column (Actual), Row (Predicted)

YES (POSITIVE)-> 1, NO (NEGATIVE) -> 0



ROC curve is Recall (TPR) versus Precision (FPR) (where recall is sensitivity and precision is 1-specificity). False alarm is Type I error and miss is Type II error.