Evolution Metrix

TP & TN & FP & FN

True Positive: “actually” spam emails and the “model” diagnose as spam

True Negative: “actually” Not-spam emails and the “model” diagnose as Not-spam

False Positive: “actually” Not-spam and and the “model” diagnose as spam

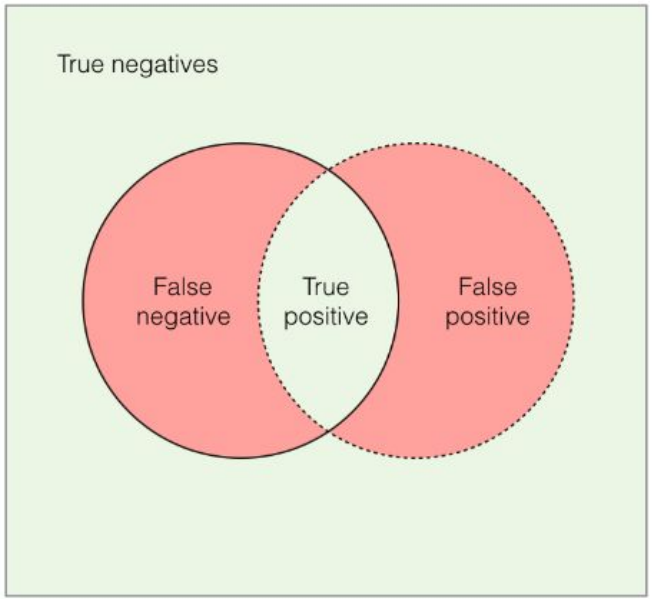
False Negative: “actually” spam and and the “model” diagnose as Not-spam

Precision : How many that the “model” diagnose as spam are “actually” spam emails. Say diagnose 100 spam but actually 50 of them are spam

Recall: How many “actually” spam that the “model” diagnose as spam.

Say actually 100 spam but model diagnose 70 of them are spam.

Low recall, low precision



TP & TN

Eg. your “hot dog” vs “not hot dog” classifier correctly classifies a “hot dog” as being a “hot dog”.

Eg. your “hot dog” vs “not hot dog” image classifier correctly classified your image of a car as not being a “hot dog”.

FP & FN

Eg. your “hot dog” vs “not hot dog” classifier incorrectly classifies a hamburger as being a “hot dog”.

Eg. your “hot dog” vs “not hot dog” image classifier incorrectly classified an image of a messed up “hot dog” as not being a “hot dog”.

Links

precision & recall 1
precision & recall 2