

Evolution Matrix

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.

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←→↺A Medium Corporation [US] | https://medium.com/@k Clintcho/explaining-precision-and-recall-c770eb9c69e9☆🛑🔒00:00🖨️⋮

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Low recall, low precision

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True negatives

False negative

True positive

False positive

Everything gets better if you use a Model about 2.5x2

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](#)
