



deeplearning.ai

Setting up
your goal

Satisficing and
optimizing metrics

Another cat classification example

Classifier	Accuracy	Running time
A	90%	80ms
B	92%	95ms
C	95%	1,500ms

$$\text{Cost} = \text{accuracy} - 0.5 \times \text{runningTime}.$$

maximize accuracy

Subject to running Time $\leq 100\text{ms}$

N metrics : 1 optimizing
N-1 Satisficing

WakeWords / Trigger words.
Alexa, OK Google, Hey Siri

accuracy
false positives

maximize accuracy

S.t. ≤ 1 false positive
every 24 hrs