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

optimizing Satisficing

$$Cost = accuracy - 0.5 \times running\ Time$$

Maximize accuracy

Subject to running Time $\leq 100\ ms$.

N metrics : 1 optimizing
             N-1 satisficing

Wakewords / Trigger words

Alexa, OK Google.

Hey Siri, nihaobaidu

你好百度

accuracy.
#false positive

Maximize accuracy.
s.t. ≤ 1 false positive
every 24 hours.

Andrew Ng