deeplearning.ai

Setting up
your goal

Satisficing and
optimizing metrics

Another cat classification example

Optimizing → **Satisficing**

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

Cost = accuracy − 0.5 × running Time

Maximize accuracy
subject to running Time ≤ 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