



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

$$\text{Cost} = \text{accuracy} - 0.5 \times \text{Running Time}$$

maximize accuracy

subject to Running Time \leq 100 ms.

N metrics : 1 optimizing
N-1 satisficing

Wakewords / Trigger words

Alexa, OK Google,

Hey Siri, nihao baidu
你好 百度

accuracy.

#false positive

maximize accuracy.

s.t. \leq 1 false positive
every 24 hours.