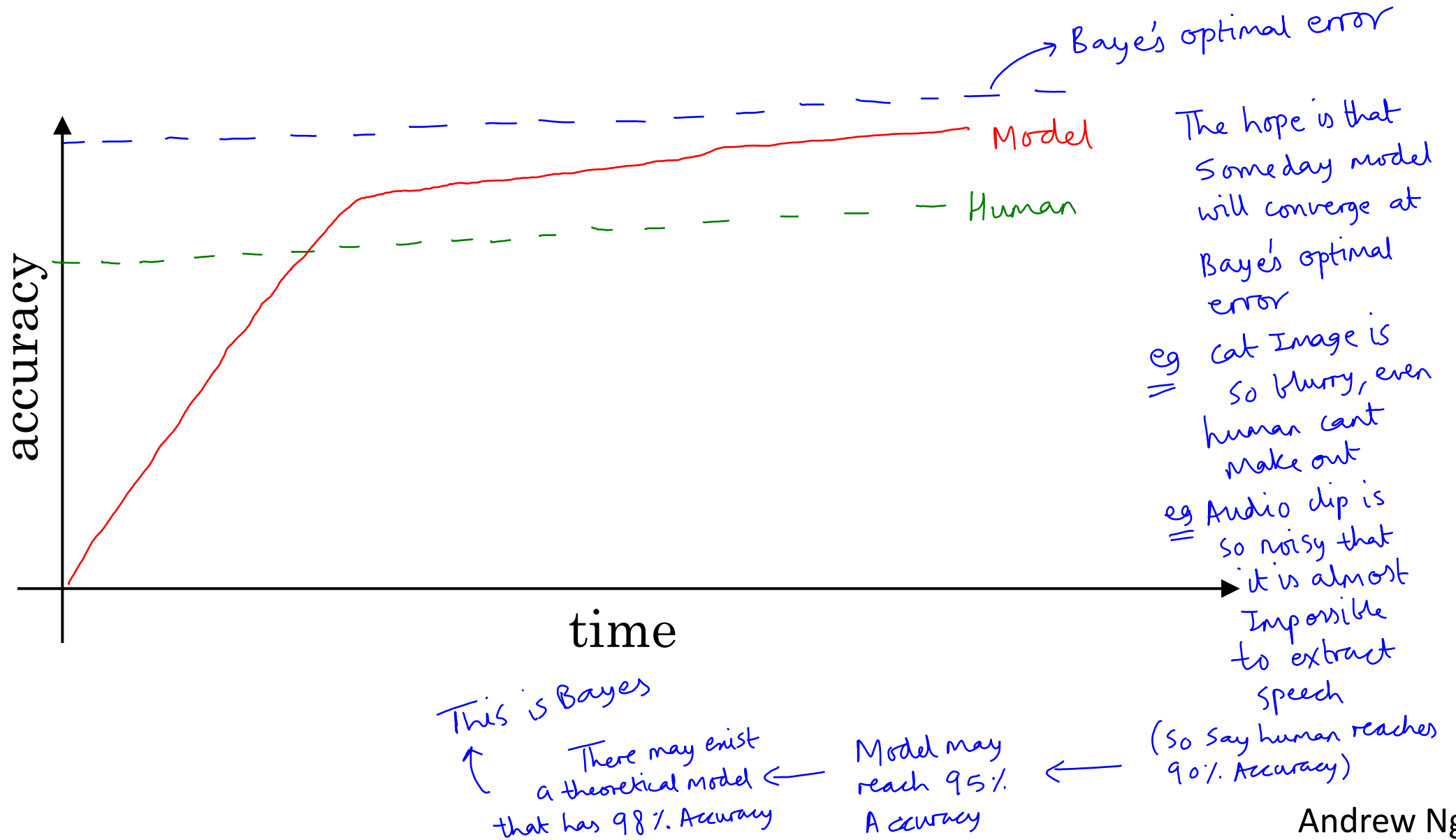deeplearning.ai

Comparing to human-level performance

Why human-level performance?

Comparing to human-level performance

Baye's optimal error

Model

Human

accuracy

time

The hope is that
Some day model
will converge at
Baye's optimal
error

eg Cat Image is
Sø blurry, even
human cant
make out

eg Audio clip is
so noisy that
it is almost
Impossible
to extract
speech

(So Say human reaches
90% Accuracy)

This is Bayes
There may exist
a theoretical model ←
that has 98% Accuracy

Model may
reach 95%
Accuracy ←

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Why compare to human-level performance

Humans are quite good at a lot of tasks. So long as ML is worse than humans, you can:

→ Img/speech Recognition

- Get labeled data from humans.

- Gain insight from manual error analysis:
  Why did a person get this right? → what is it that the person did that he/she got it right - can possibly integrate this feature detection in our Algo (Room for Improvement)

- Better analysis of bias/variance.

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