



deeplearning.ai

Comparing to human-
level performance

Understanding
human-level
performance

Human-level error as a proxy for Bayes error

Medical image classification example:



Suppose:

(a) Typical human 3 % error

→ (b) Typical doctor 1 % error

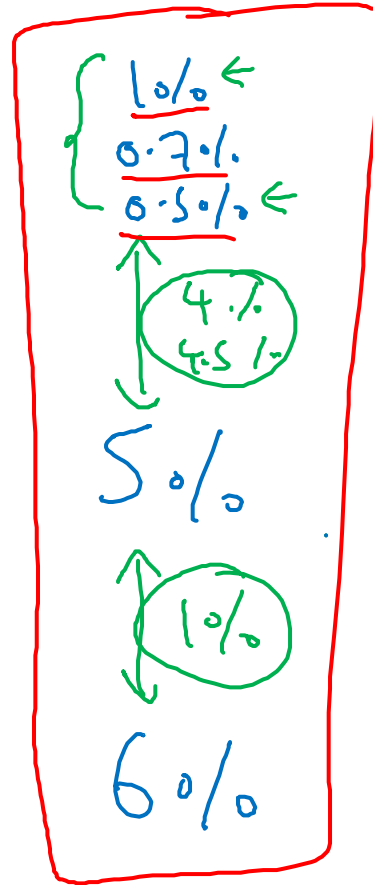
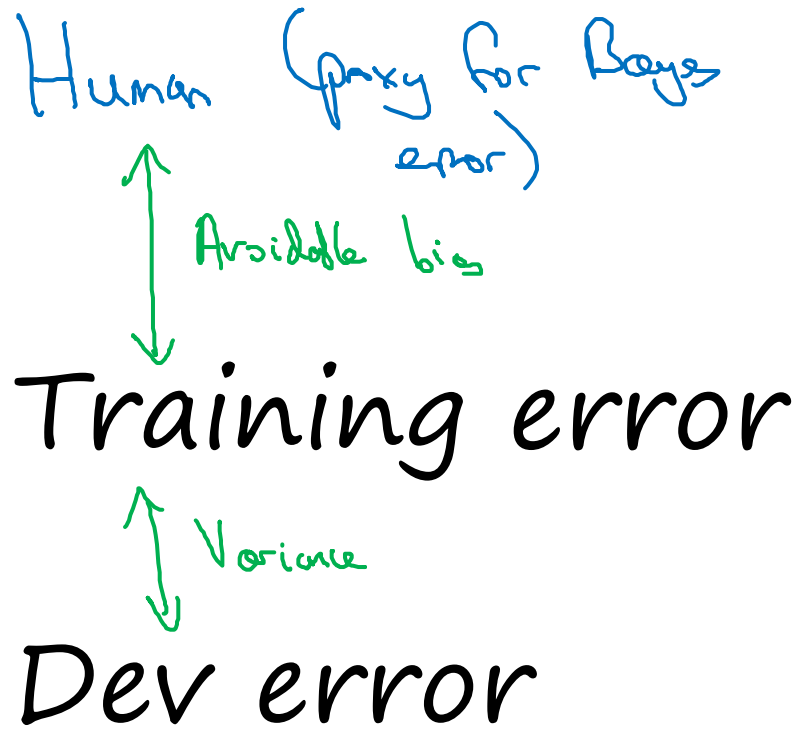
(c) Experienced doctor 0.7 % error

→ (d) Team of experienced doctors .. 0.5 % ~~error~~

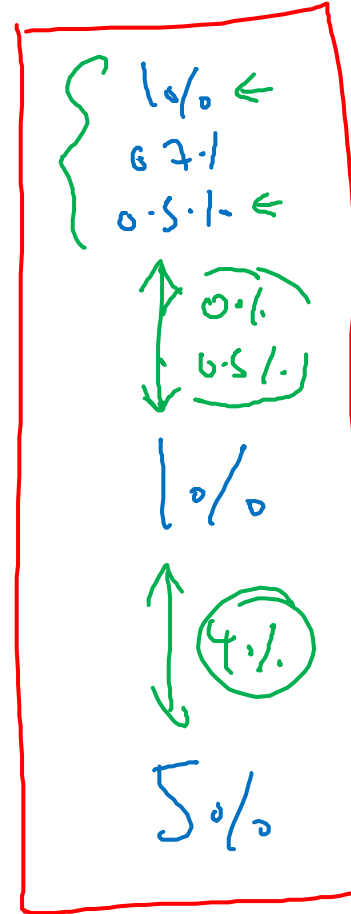
Bayes error \leq 0.5%

What is “human-level” error?

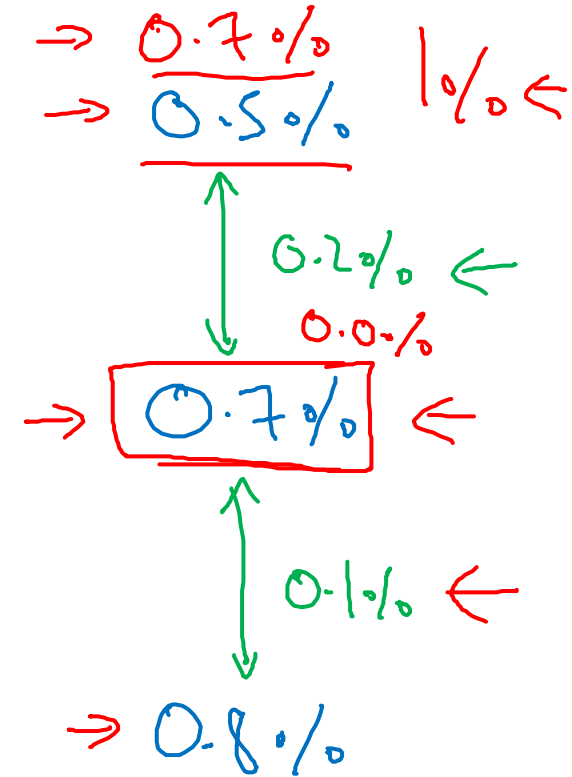
Error analysis example



↑
Bias



↑
Variance



Summary of bias/variance with human-level performance

