

# Comparing to human-level performance

Understanding human-level performance

## Human-level error as a proxy for Bayes error

Medical image classification example:

#### Suppose:





(c) Experienced doctor ...... 0.7 % error

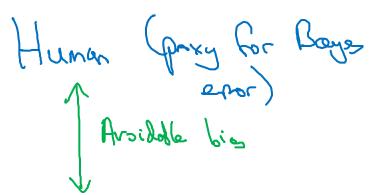
 $\rightarrow$  (d) Team of experienced doctors .. 0.5 % error  $\leftarrow$ 

What is "human-level" error?



Baye enor 5 0.50/3

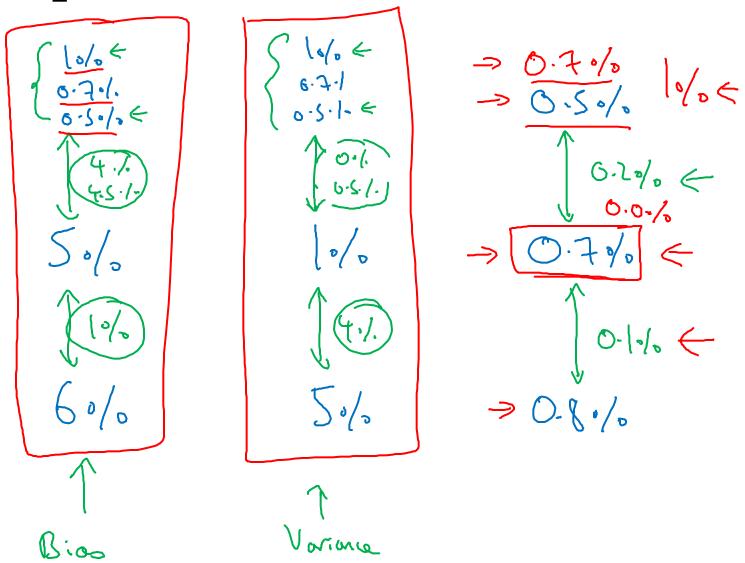
### Error analysis example



Training error



Dev error



## Summary of bias/variance with human-level performance



Human-level error

Training error

Dev error

