

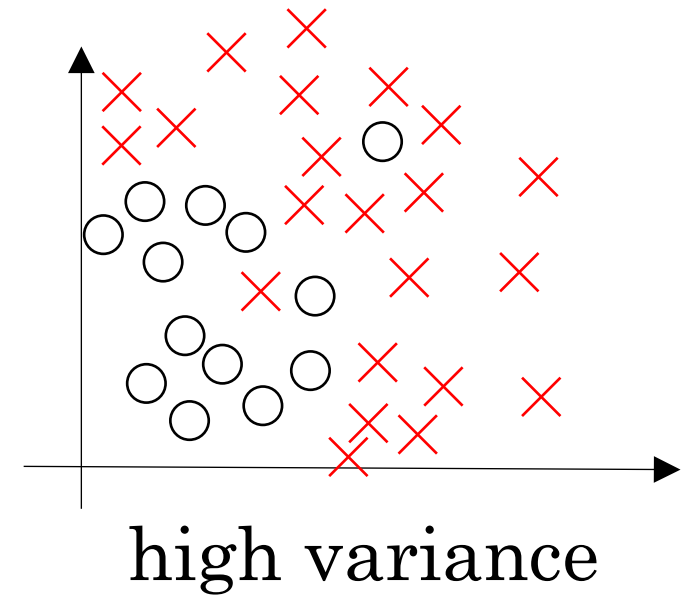
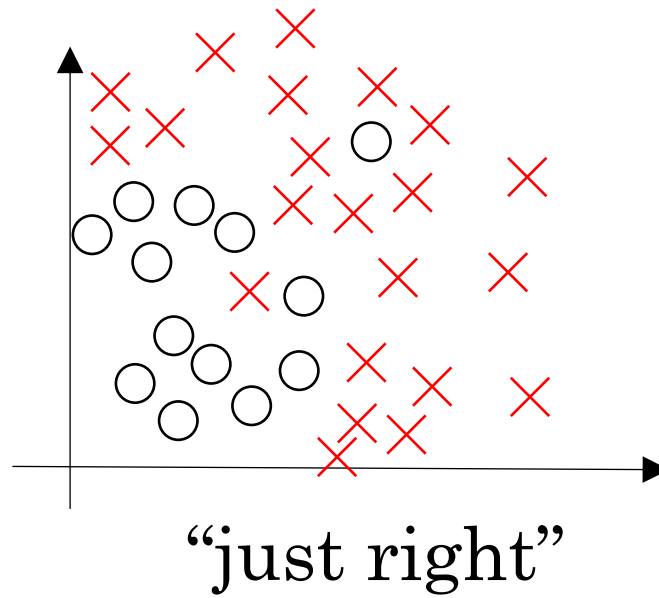
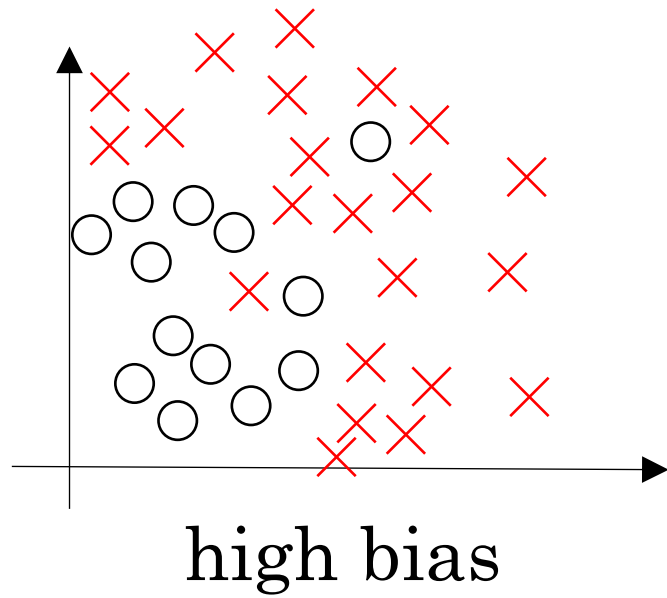


deeplearning.ai

Comparing to human-
level performance

Avoidable bias

Bias and Variance



DONE IN
COURSE 1

Bias and Variance

Cat classification



Training set error:

Dev set error:

DONE
IN COURSE 1

Cat classification example

		<u>Blurry Images</u>	
Human error	1%	7.5%	
Training error	8%	8%	↑ Gap is small
Dev error	10%	10%	↑ Gap is large \Rightarrow Focus on <u>Variance</u> to \downarrow this

⇓
Algo is not fitting the training data well
 $\Rightarrow \downarrow$ Bias

For cat classification (computer vision),
Human level error can be treated as
a proxy for Bayes' error

\Rightarrow Diff b/w Human (Bayes') error & training = Avoidable Bias

Diff b/w Training & Dev error
= Variance