



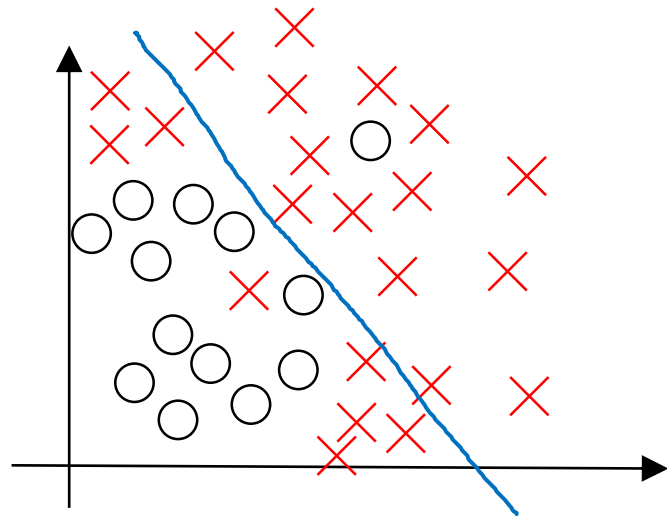
deeplearning.ai

Comparing to human-  
level performance

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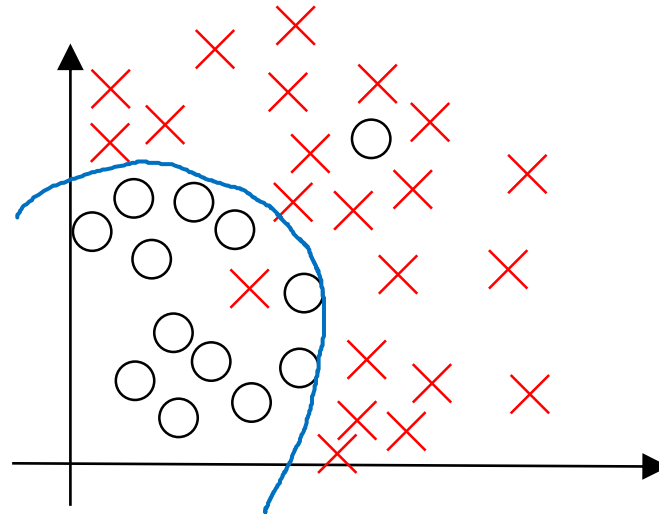
**Avoidable bias**

# Bias and Variance

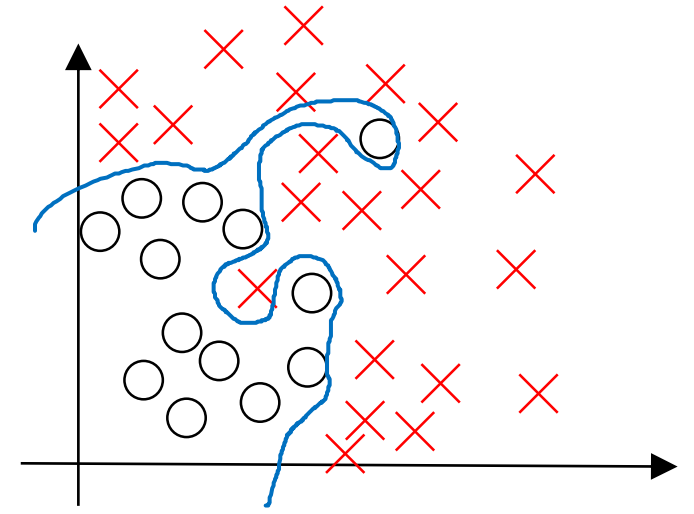


high bias

*underfitting*



“just right”



high variance

*overfitting*

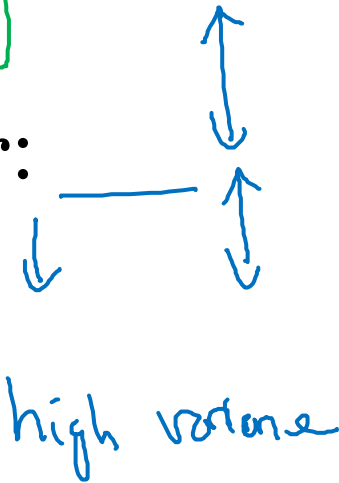
# Bias and Variance

Cat classification

Human-level  $\approx 0\%$  ...

Training set error:

Dev set error:



high bias  
high variance

low bias  
low variance

# Cat classification example

