



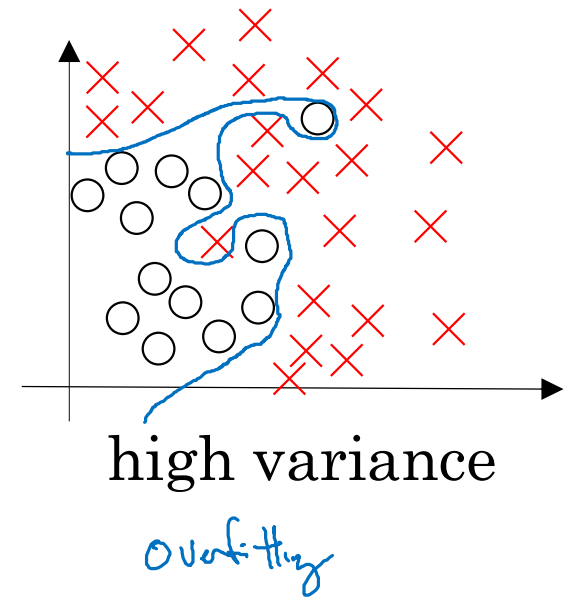
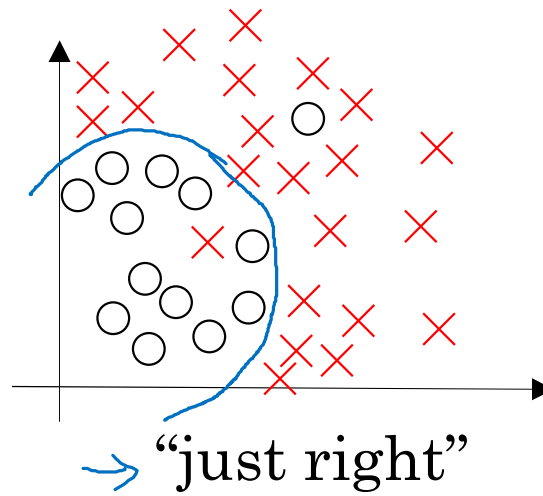
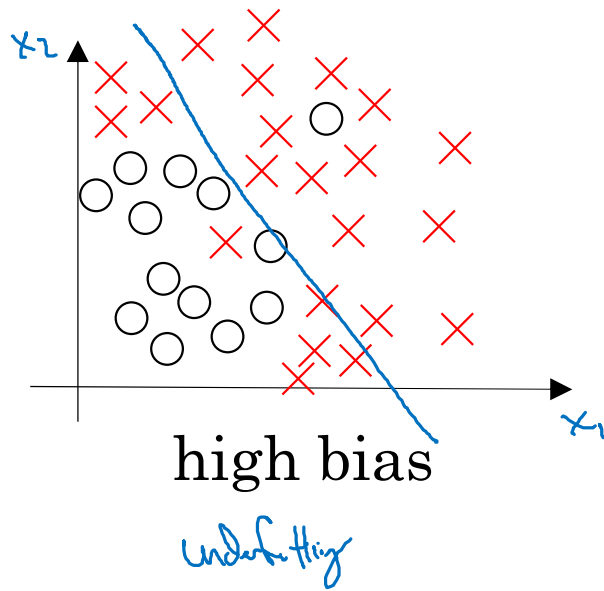
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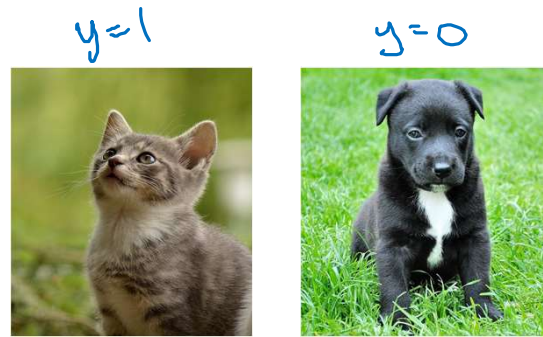
**Bias/Variance**

# Bias and Variance



# Bias and Variance

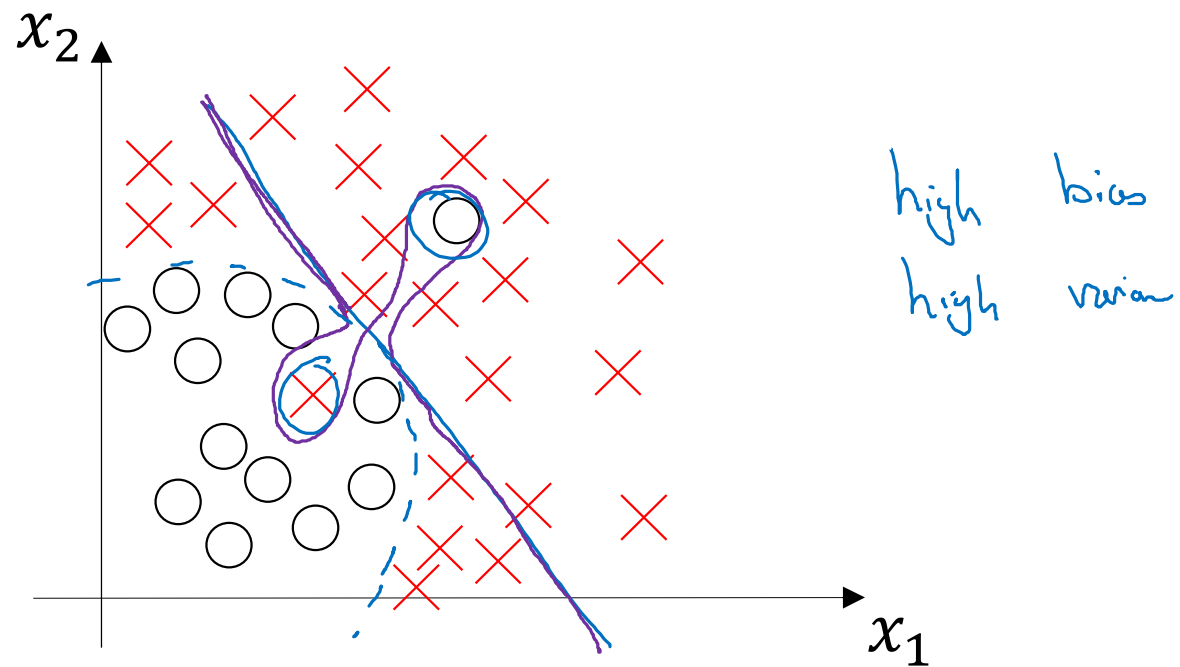
Cat classification



Train set error:	1%	15%	15%	0.5%
Dev set error:	11%	16%	30%	1%
	high variance ↑	high bias ↑↑	high bias & high variance	low bias low variance ↑
Human	~0%			
Optimal (Bayes) error:	<del>~0%</del> 15%			

Blurry images

# High bias and high variance





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Basic “recipe”  
for machine learning

# Basic “recipe” for machine learning

# Basic recipe for machine learning

