



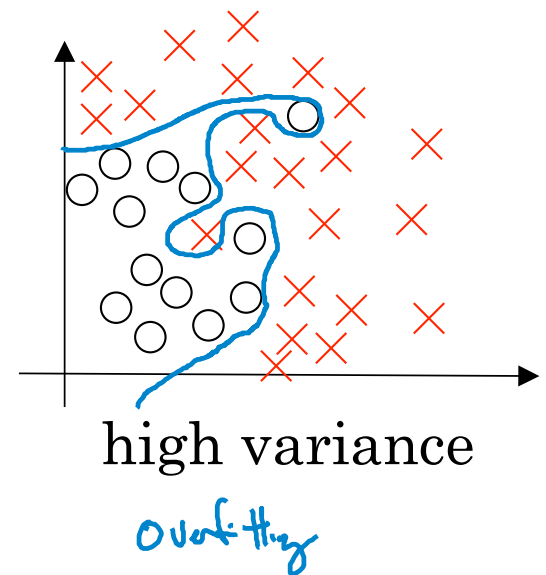
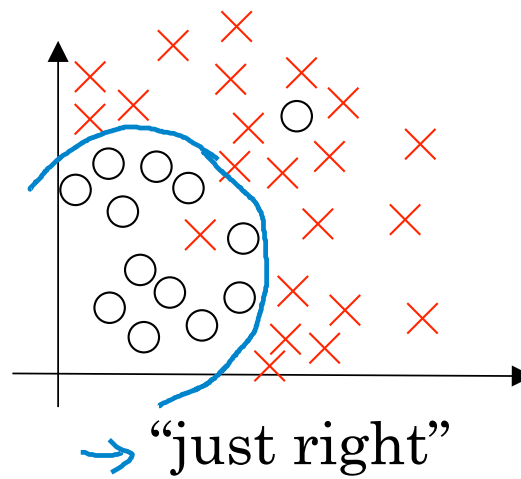
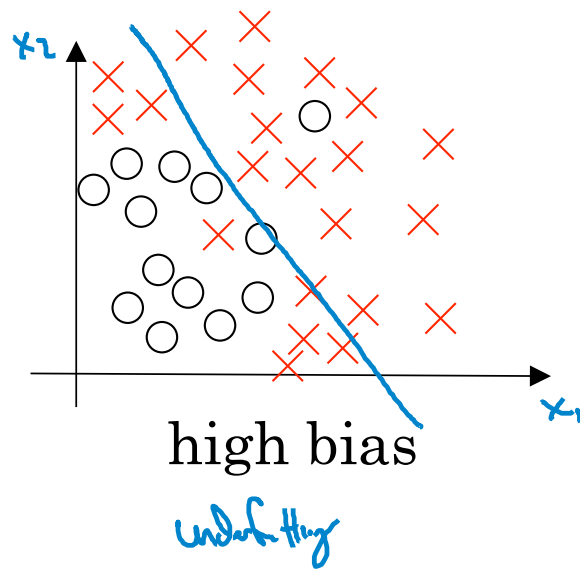
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Setting up your  
ML application

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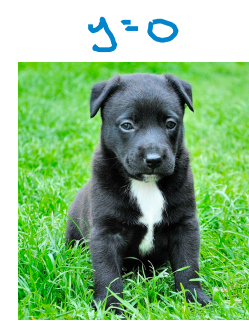
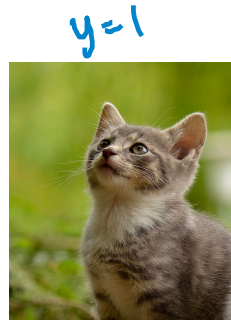
**Bias/Variance**

# Bias and Variance



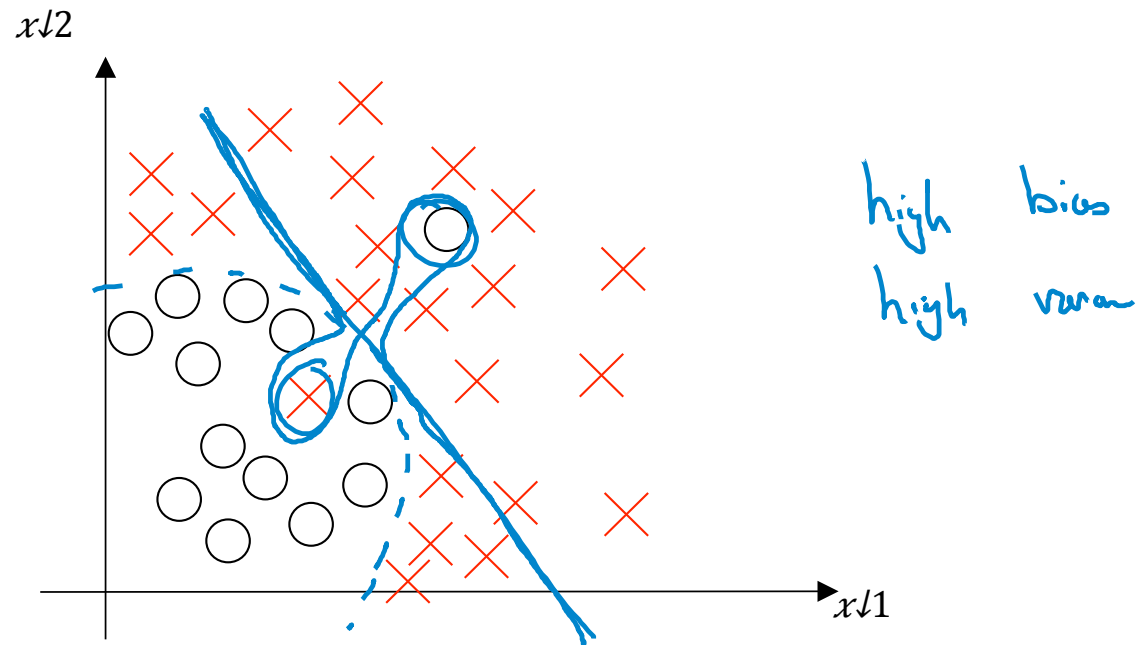
# Bias and Variance

Cat classification



Train set error:	1%	15% $\nwarrow$	15%	0.5%
Dev set error:	11%	16% $\nwarrow$	30%	1%
	high variance $\uparrow$	high bias $\uparrow \uparrow$	high bias & high variance	low bias low variance $\uparrow$
Human $\approx 0\%$				
Optimal (Bayes) error: <del>2%</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

