

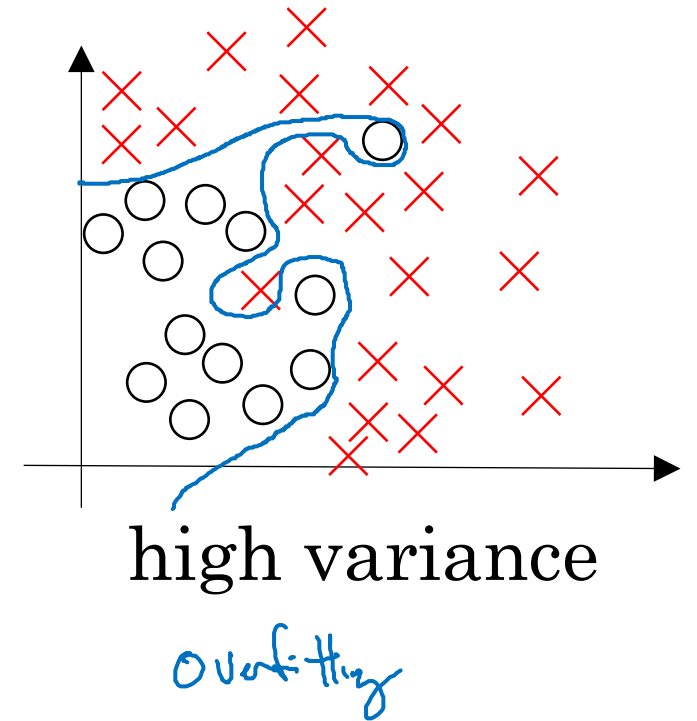
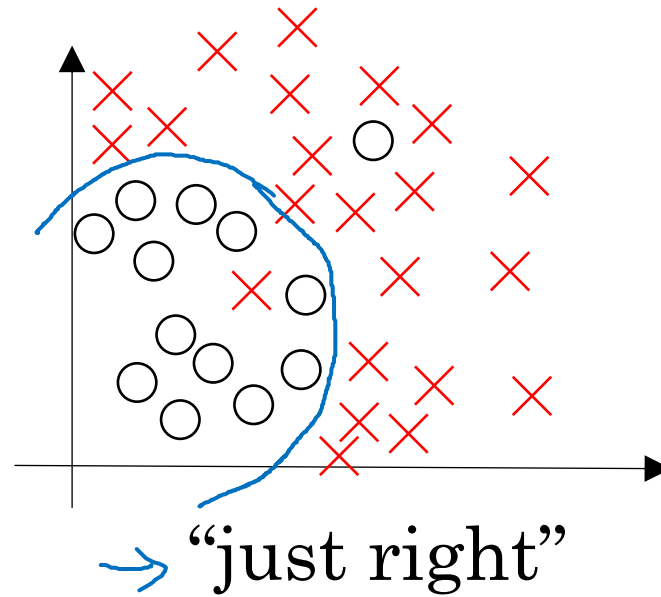
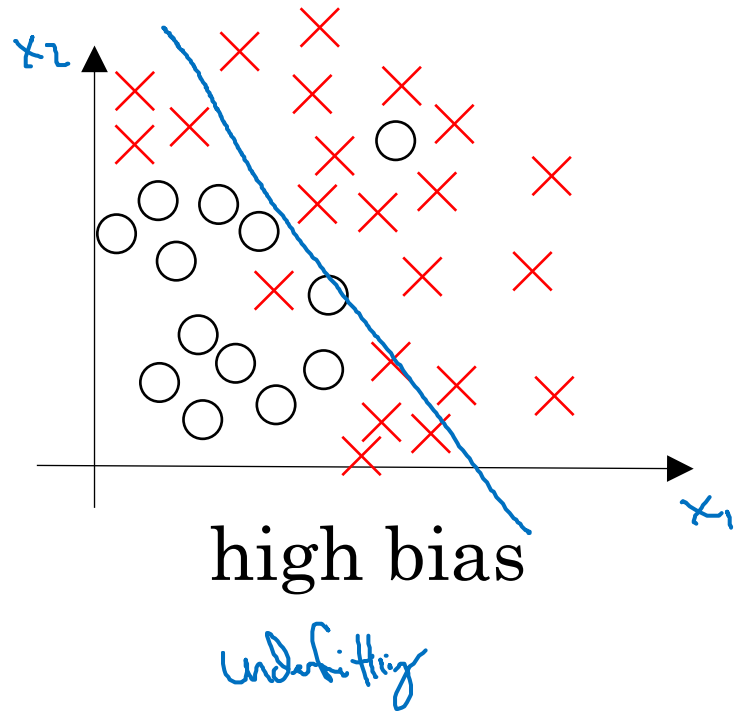


# Setting up your ML application

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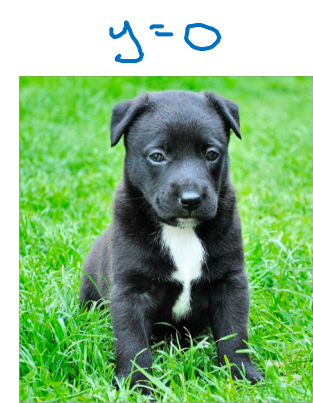
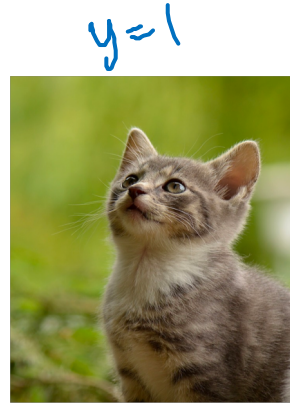
## Bias/Variance

# Bias and Variance



# Bias and Variance

## Cat classification



Train set error:	1%	15% ↙	15%	9.5%
Dev set error:	11%	16% ↙	30%	1%
	high variance ↑	high bias ↑ ↑	high bias & high variance	low bias low variance ↑
Human: ~0%				
Optimal (Bayes) error: ~0%	15%			

*Blurry images*  
if you have really blurry images,  
so that even a human or just no system could possibly do very well,  
then maybe base error is much higher,  
and then there are some details of how this analysis will change.

# High bias and high variance

