Classification

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w and b are parameters that affect the computation of what probability is of y = 1 given input x

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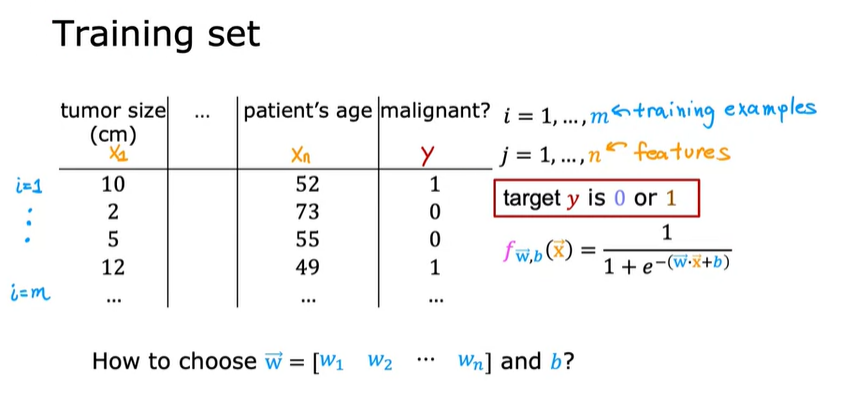
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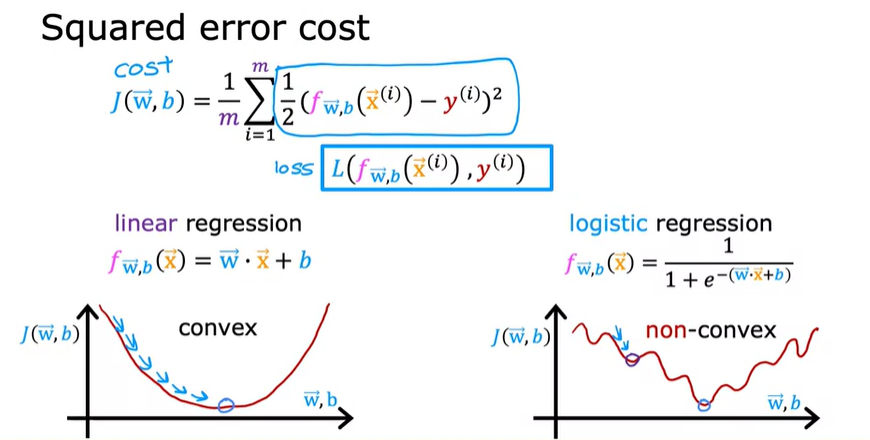
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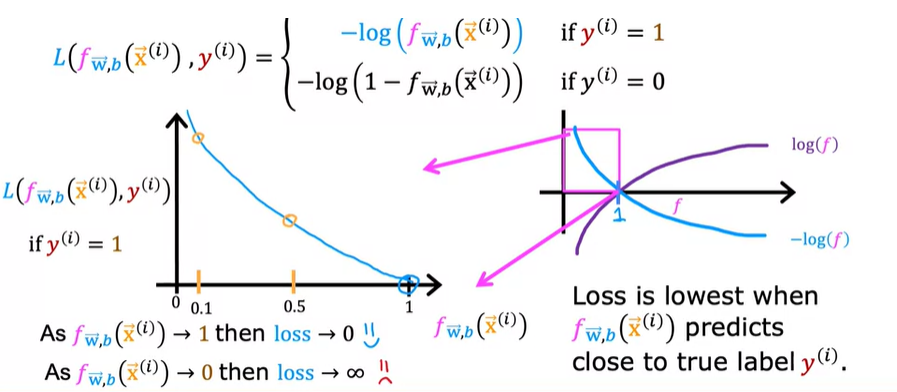
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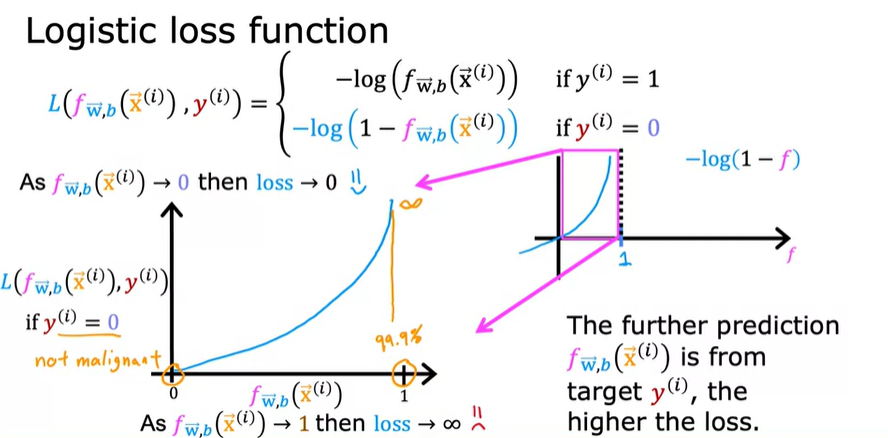
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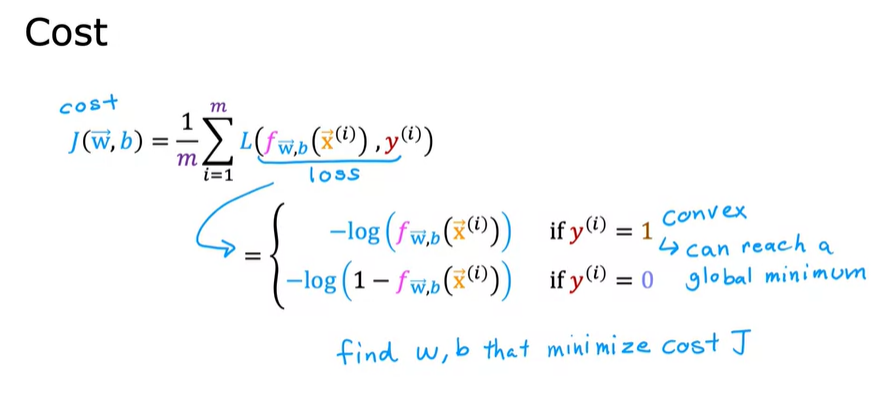
Cost function for logistic regression



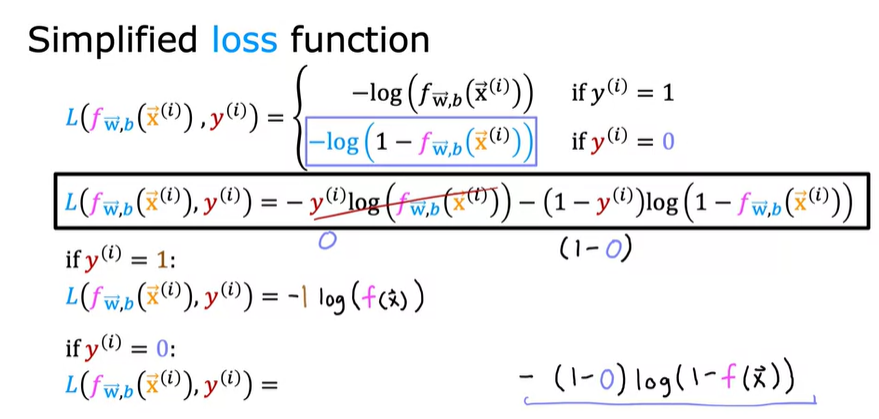


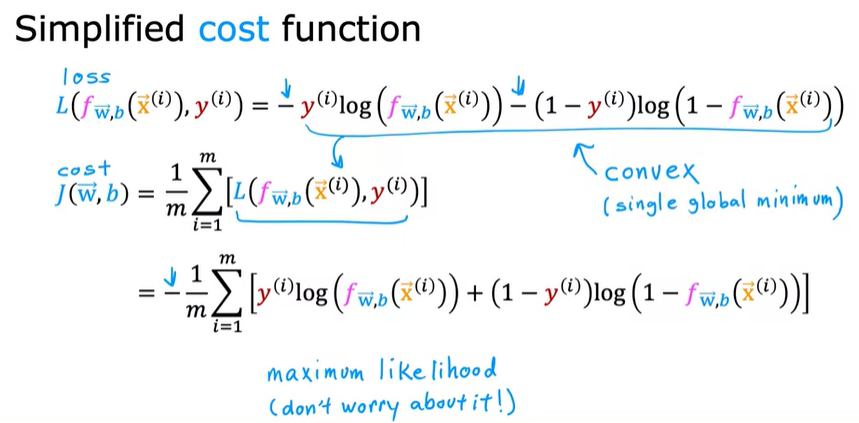




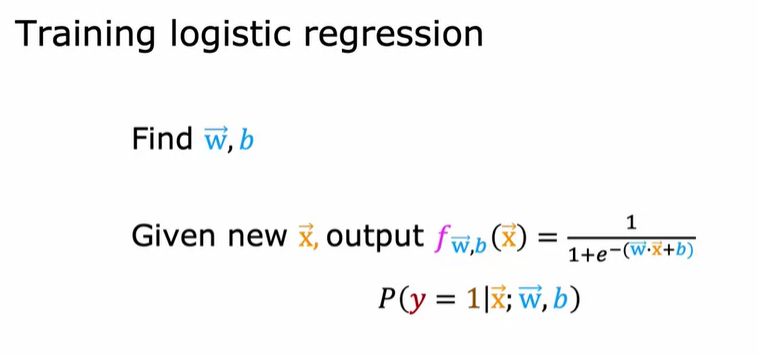


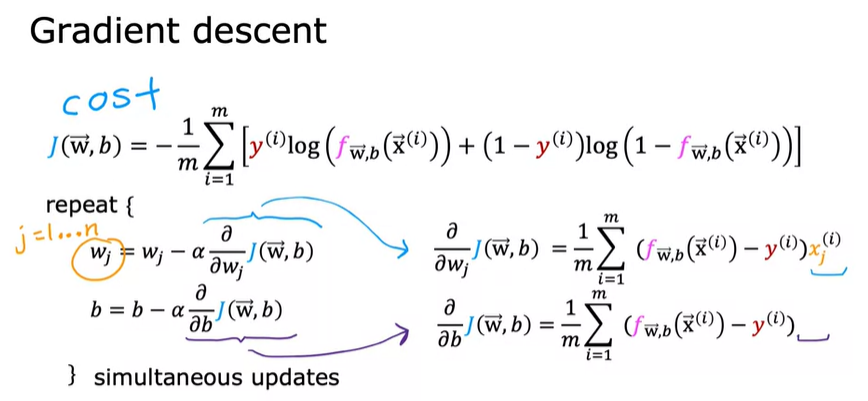
Simplified Cost Function for Logistic Regression

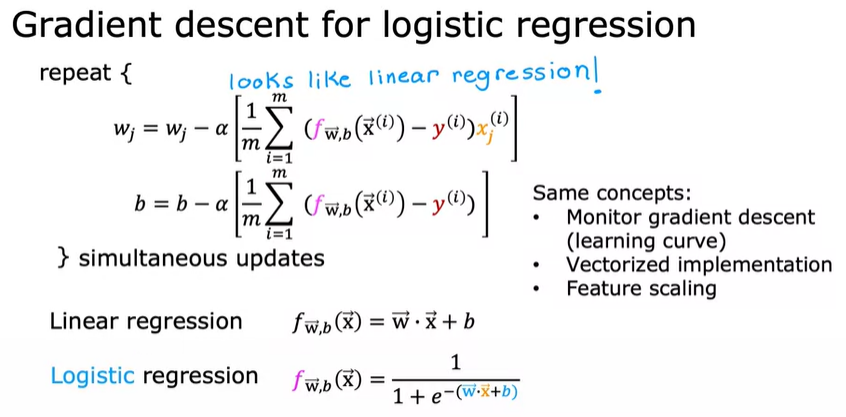




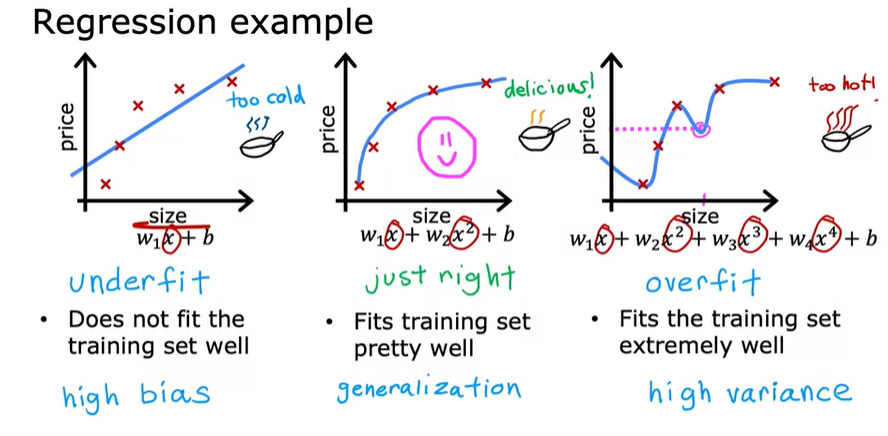
Gradient Descent Implementation

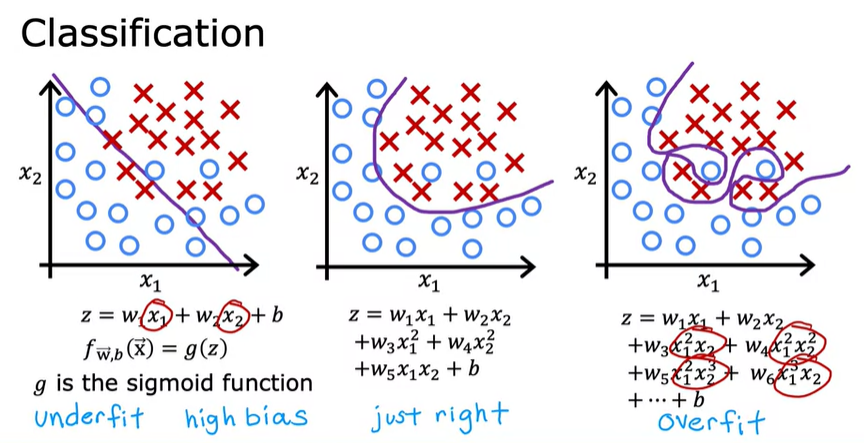




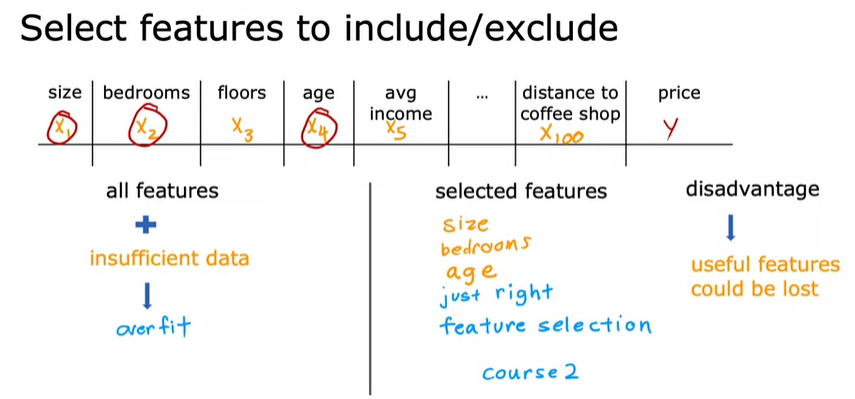


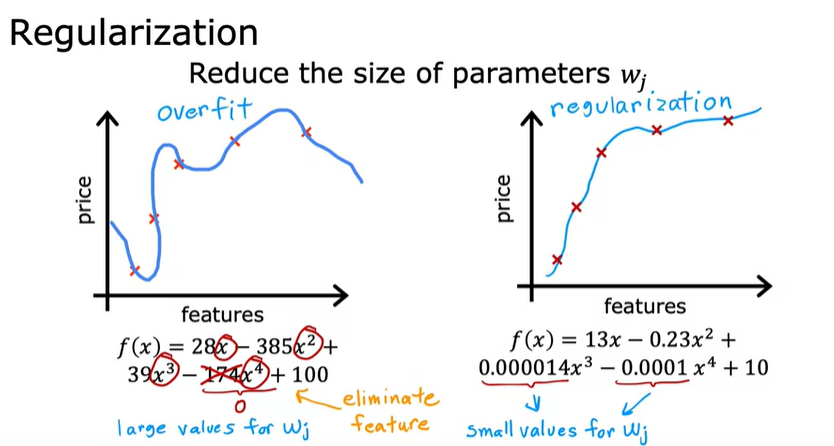
Regularization to Reduce Overfitting



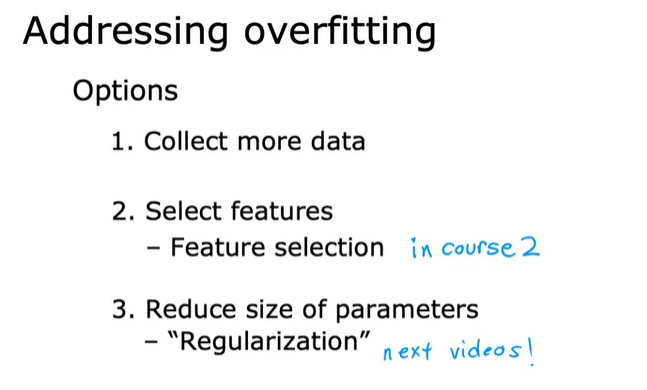


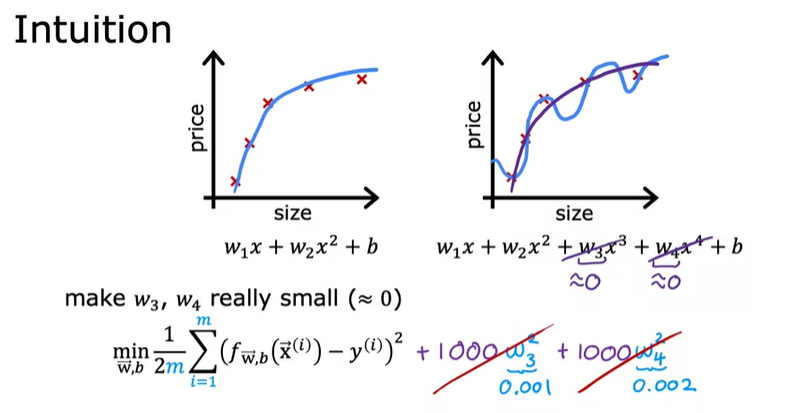


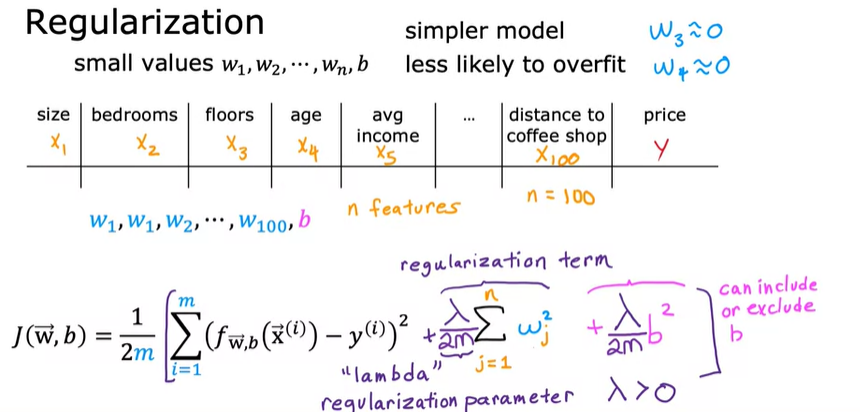


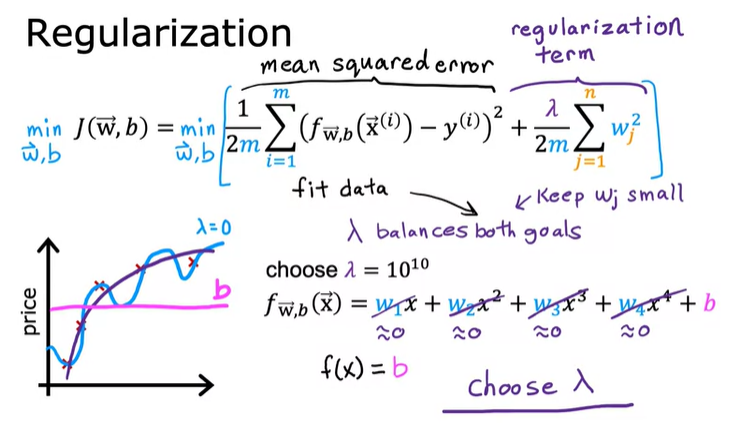


Normally we don’t reduce the value of b









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