Quiz 2:

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Introduction to Supervised Learning

Email address \*

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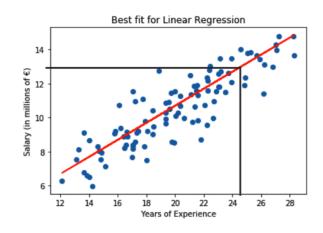
Please enter your name: \*

Michael Symmonds

## Linear Regression/Logistic Regression

Which model aims to fit the best line based on the following data?

1 point



O Logistic Regression

Linear Regression

Hidden Markov Model

What model is summarized as follows?

1 point

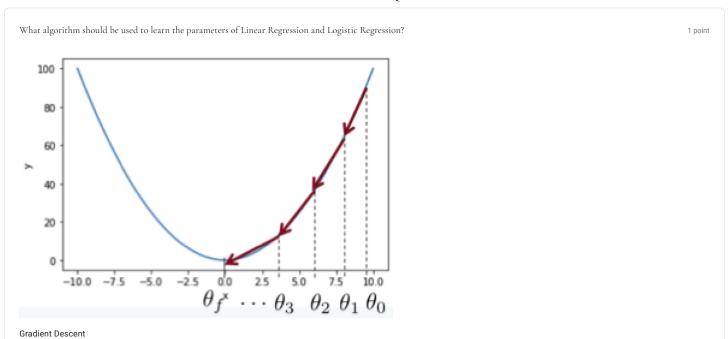
$$\forall i \in \{1, \dots, N\} \quad Y_i | X_i = x_i \sim \mathcal{B}(\sigma(w^T x_i))$$

O Bernoulli model

Logistic Regression

Linear Regression

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What are the two hyperparameters that should be chosen before applying the Gradient Descent algorithm?

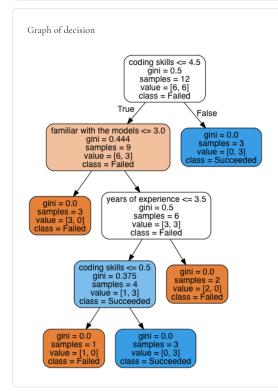
2 points

The learning rate (eta)

The number of iterations of gradient descent until convergence

## Decision Trees Algorithm

We want to predict whether someone is going to succeed or fail in a Machine Learning Interview based on the following features: "years of experience", "coding skills" (with discrete values in [0, 5]), "familiar with the models" (with discrete values in [0, 5]), and "like chocolate" (with binary output o/1). We obtain the following graph of decision



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