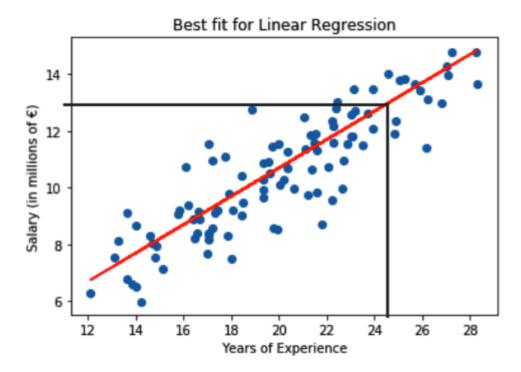
## Quiz 2:

## Introduction to Supervised Learning

\*Required

1.	Email address *
2.	Please enter your name: *

Linear Regression/Logistic Regression



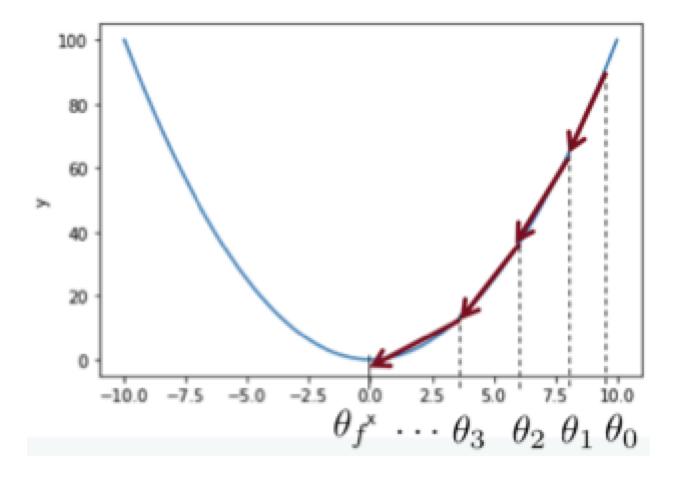
Mark only one oval.

- \_\_\_\_ Logistic Regression
- Linear Regression
- Hidden Markov Model

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

Mark only one oval.

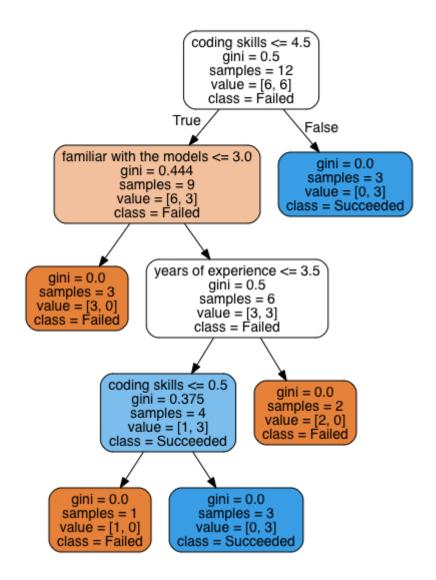
- Bernoulli model
- Logistic Regression
- Linear Regression



5.	What are the two hyperparameters that should be chosen before applying the Gradient Descent algorithm?	2 points

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 0/1). We obtain the following graph of decision



7.	How many candidates have succeeded?	1 point
	Mark only one oval.	
	4	
	5	
	<u> </u>	
8.	How many candidates have failed?	1 point
	Mark only one oval.	
	2	
	4	
	<u> </u>	
9.	If a candidate has the following characteristics: 4 years of experience, o for coding skills, and 4 for the familiarity with the models. What would	1 point
	the algorithm predict?	
	Mark only one oval.	
	Successed	
	Failed	

10.	What is the minimum value of "coding skills" that can change the prediction value in the previous example?	1 point
	Mark only one oval.	
	1	
	2	
	3	
11.	Give one of the hyperparameters for the Decision Trees Algorithm and one for the Random Forest Algorithm?	1 point
Pro	ogramming Session	
12.	Did you understand the problem?	
	Mark only one oval.	
	Yes	
	◯ No	

Δ 2				
Any comment?				

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