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We are waiting for other participants to join.
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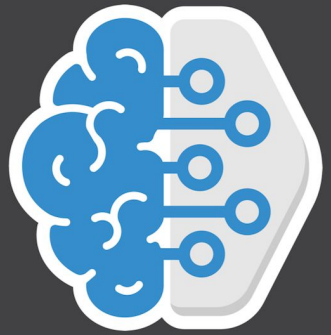

Supervised Machine Learning

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Founder and Instructor
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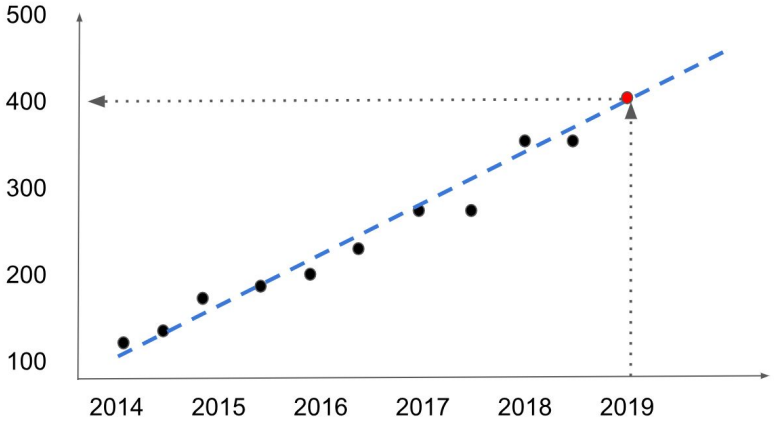
SESSION OBJECTIVES

- Quick Recap
- Let’s get our Math straight
- Build a Linear Regression Model

Types of Machine Learning Problems

1 Regression Problem

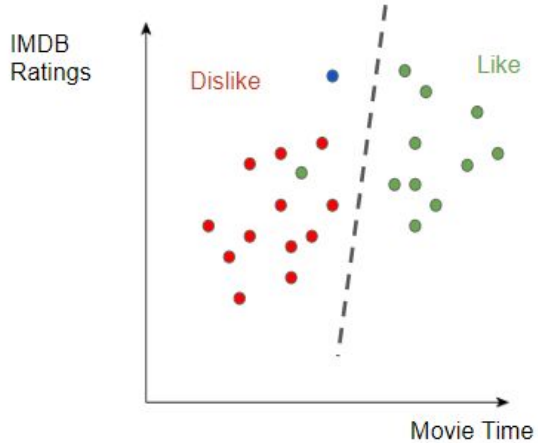
E.g. Predict the price of a stock next year



Predict a continuous output value

2 Classification Problem

E.g. Will a user Like or Dislike a movie?



Predict a discrete class/group

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Supervised Machine Learning

House Size (Sq feet)	Location	Age (years)	Prize (Lakh Rs)
500	Mumbai	2	70
1500	Pune	3	100
2000	Banglore	4	60
1000	Mumbai	2	?
3000	Pune	10	?

Training Data

Test Data

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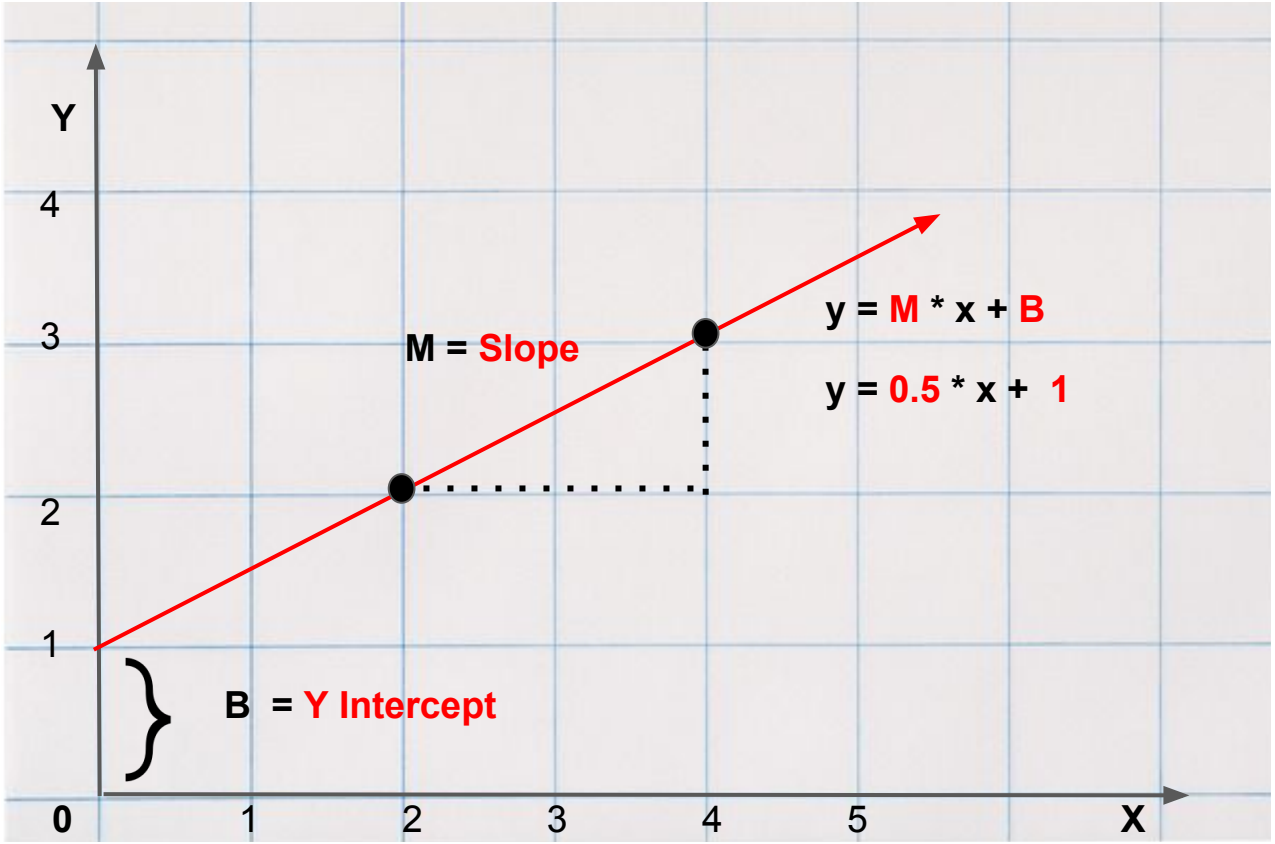
QUIZ

Which of the following is a regression problem?

1. Determine whether a tumor is deadly based on its size, color etc.
2. Predict the score of a student based on number of hours they studied
3. Determine whether an insurance claim is fraud or genuine.

Let’s Get Our Math Straight!



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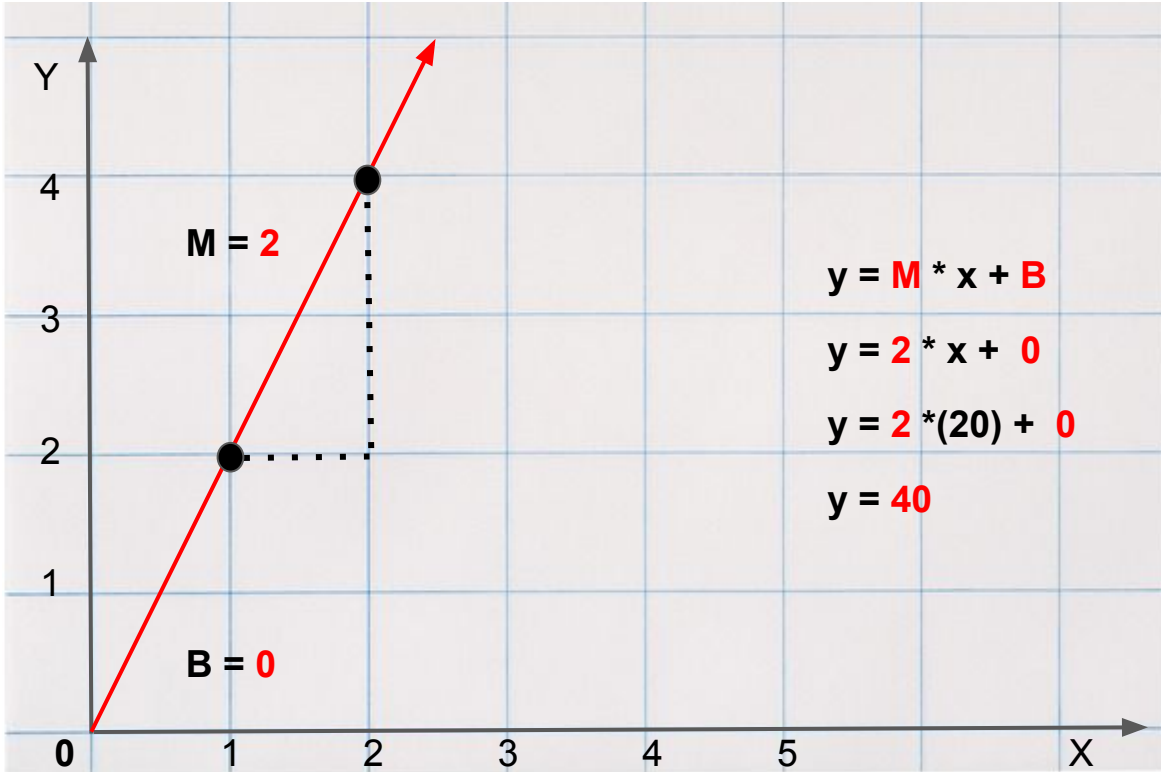
Quiz: Find the value of y for x = 20 on this line



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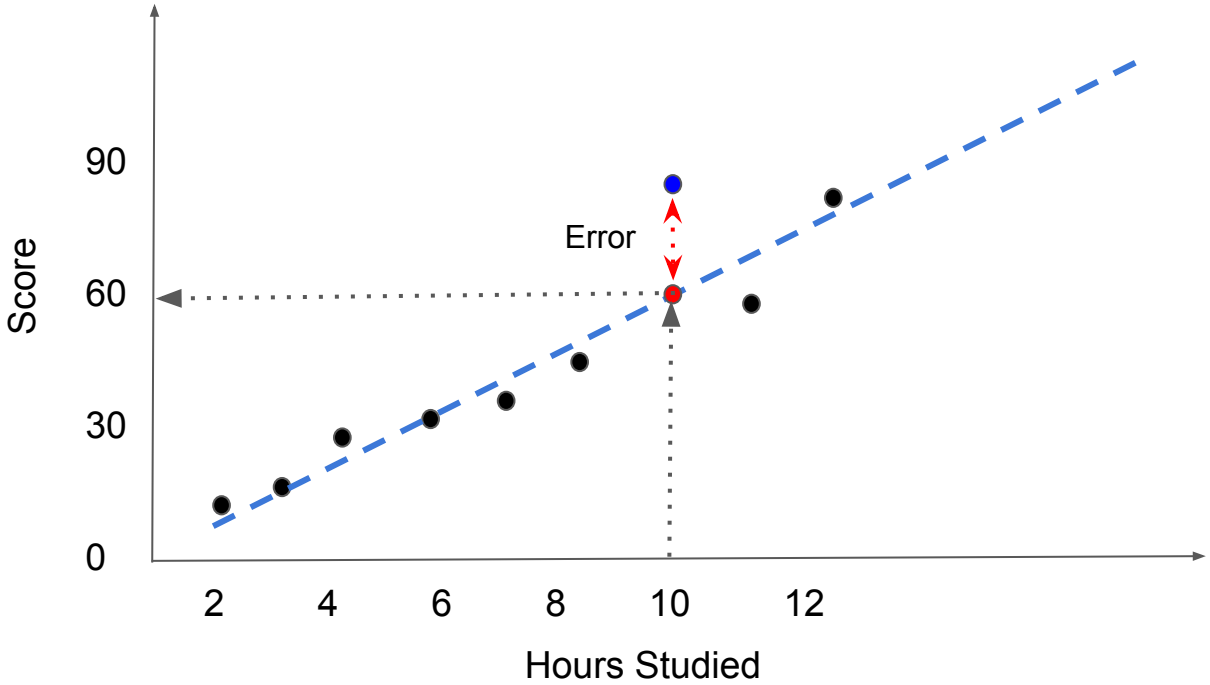
Linear Regression

E.g. Predict the score of a student based on number of hours studied



1 Create a Model

y = M * x + B

Predicted Score for
10 hours studied = **60**

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Setup Environment

http://www.codeheroku.com/post?name=Python%20Libraries%20Installation

pip install numpy matplotlib pandas scikit-learn scipy

Play with some data

http://www.codeheroku.com/static/workshop/code/supervised-ml/linear-regression.zip

Thank you!

Your feedback means a lot

https://goo.gl/forms/S5j4vjys1ojyHhzD3

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