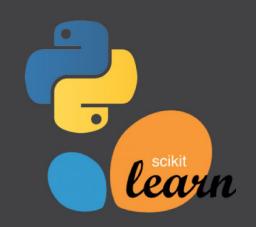


Please turn off your webcam.

If you are joining from Mobile device make sure you click on Join via Device Audio

We are waiting for other participants to join.
Thank you for your patience!





Supervised Machine Learning – Part 2



Mihir Thakkar

Founder and Instructor hello@codeheroku.com

SESSION OBJECTIVES

- Quick Recap
- Categories of ML Algorithms
- Build a Naive Bayes

Classifier

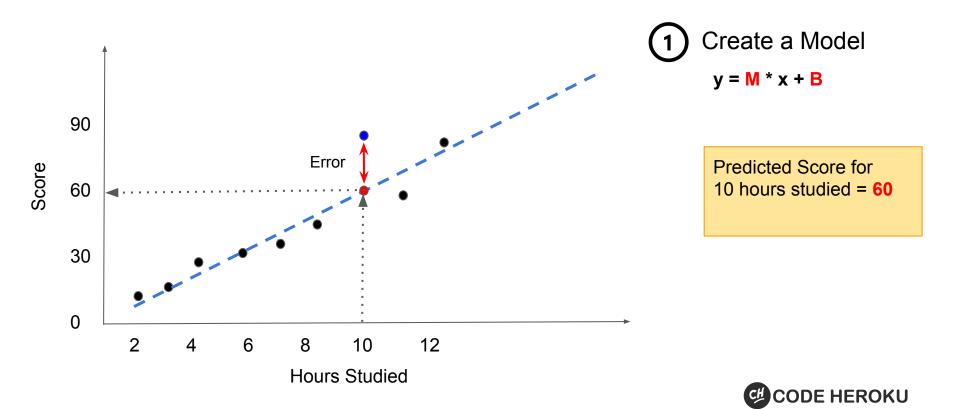
Supervised Machine Learning

	Features				
(House Size (Sq feet)	Location	Age (years)	Prize (Lakh Rs)	
	500	Mumbai	2	70)
	1500	Pune	3	100	Training Data
	2000	Banglore	4	60	.)
	1000	Mumbai	2	?	Test Data
	3000	Pune	10	?	5
					_



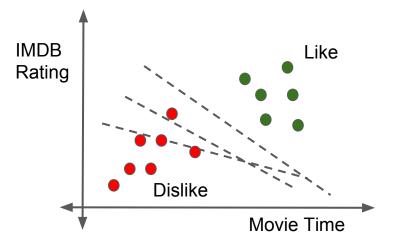
Linear Regression

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



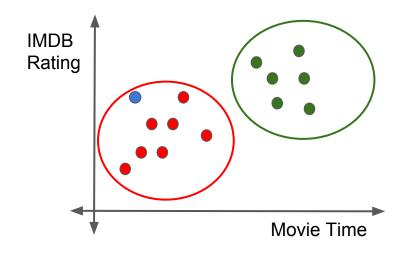
Categories of Machine Learning Algorithms

1 Discriminative



E.g. Linear Regression

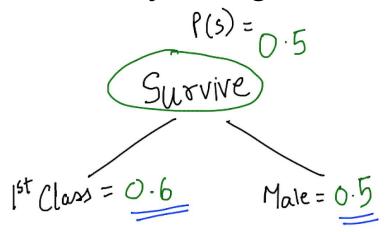




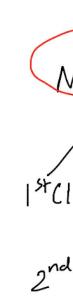
E.g. Naive Bayes Classifier

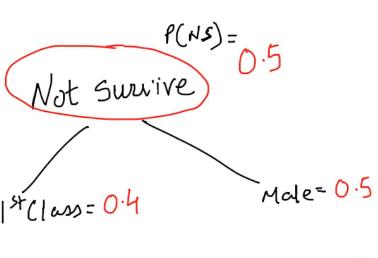


Naive Bayes Algorithm



0.6x0.5x0.5







Naive Bayes Algorithm



Why is Naive Bayes, called Naive?

Advantages of Naive Bayes

- Simple and Easy to Implement
- Executes Quickly
 - Scales for Real-time UseCases and Massive DataSets

QUIZ

Naive Bayes Algorithm is best suitable for cases where:

- 1. Speed of algorithm is critical
- 2. Accuracy of classification is critical



Setup Environment

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

pip install numpy matplotlib pandas scikit-learn scipy

http://www.codeheroku.com/static/workshop/code/supervised-ml/naive-bayes.zip

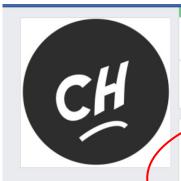
Ham or Spam Email Classification

http://www.codeheroku.com/static/workshop/hw/supervised-ml/spam.csv

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