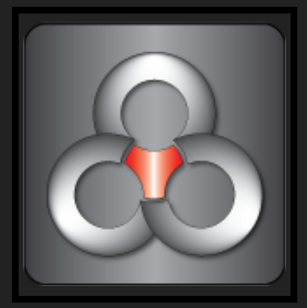
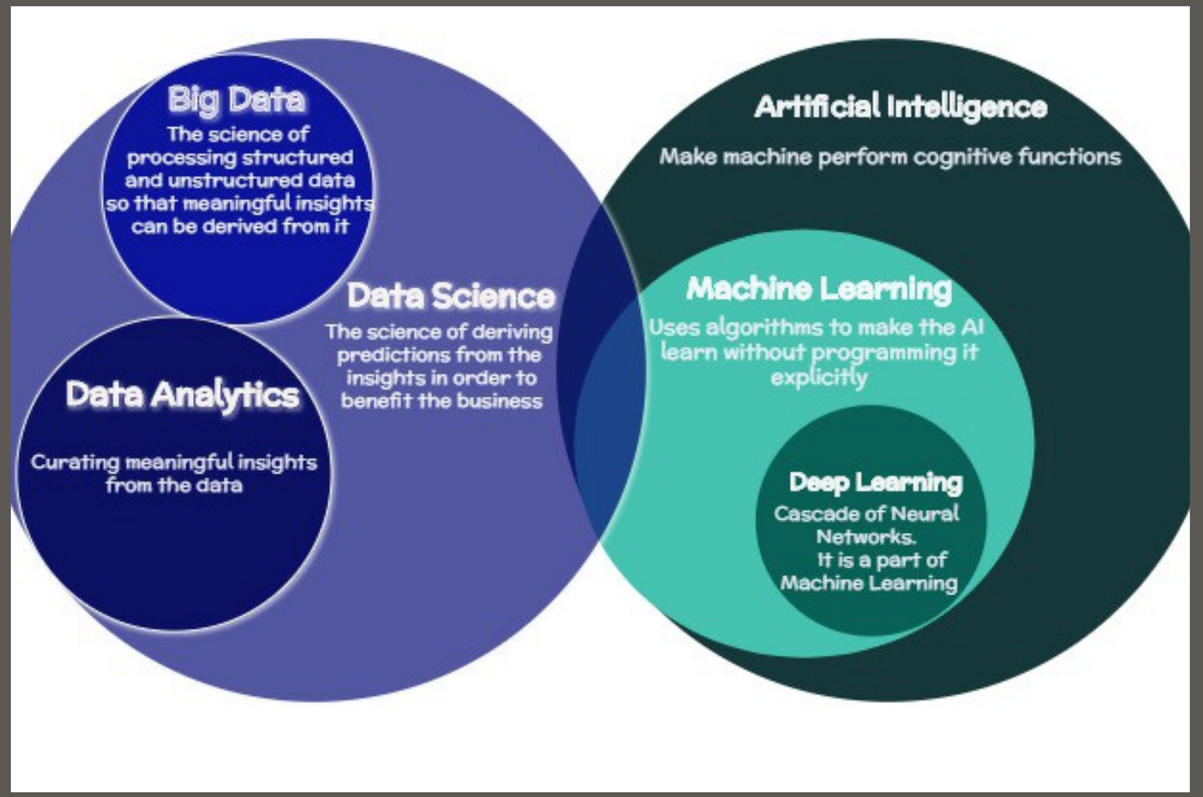


MOBILE PATHWAYS PARTNERS

OVERVIEW

AI-MACHINE LEARNING

MOBILE PATHWAYS PARTNERS

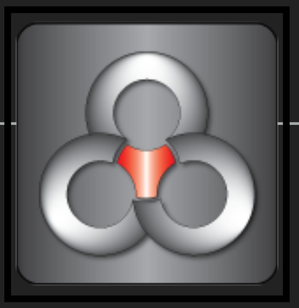


THE BIG PICTURE

MACHINE LEARNING WHAT IS IT?

MOBILE PATHWAYS PARTNERS

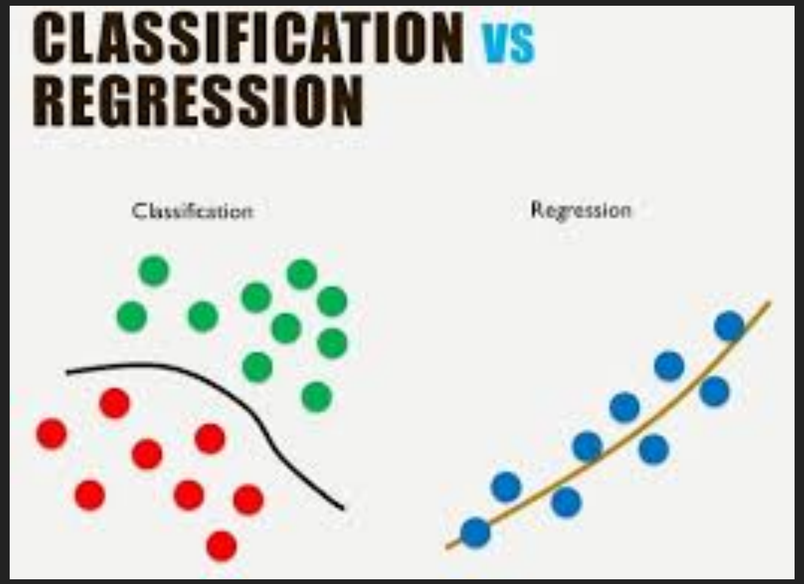
- Giving the computer the data and tools it needs to study a problem and solve it without being told what to do. Also, giving the computer the ability to remember what it did so it can adapt, evolve, and learn.



MOBILE PATHWAYS PARTNERS

TYPES

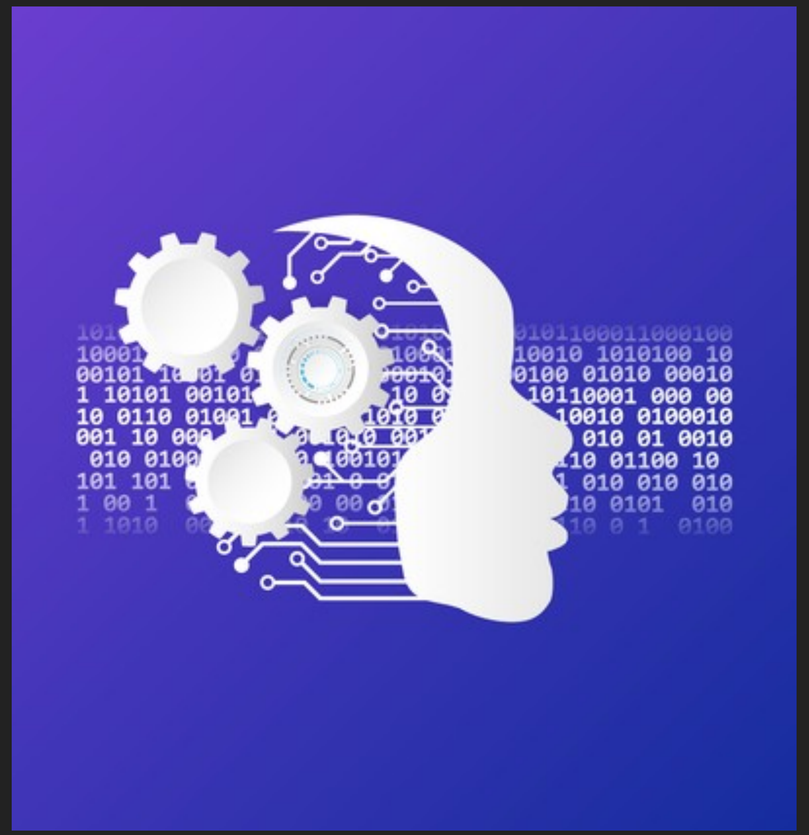
- **Training Data** - Smaller portion of data that you'll use to find patterns.
- **Supervised** - When a data scientist acts like a tutor for the machine, training it by showing it basic rules and giving it an overall strategy.
- **Unsupervised** - The machine makes all the observations on its own. It might now know all the different names and labels, but it will find patterns on its own.
- **Semi-supervised** - Partially train the machine to it gets a high-level overview, then most of the learning about the rules and strategies is through observing different patterns.
- **Reinforcement** - Machines iterate to continuously improve the outcome.



POPULAR ALGOS

MOBILE PATHWAYS PARTNERS

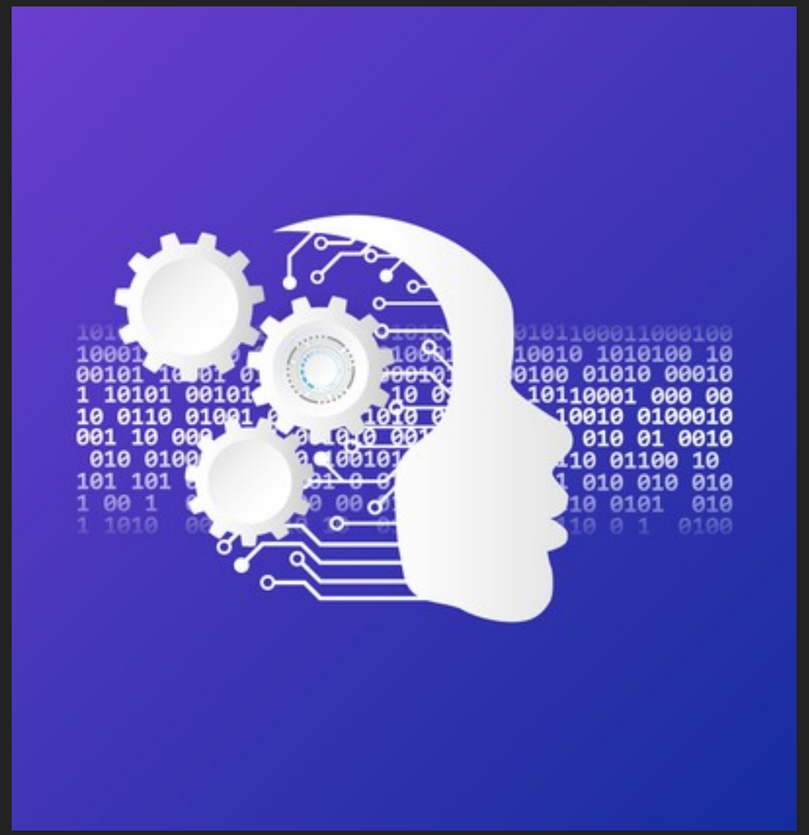
- Decision Trees - Predictors Outcomes
- K-nearest neighbor - Supervised, data grouped together based on similar characteristics
- K-mean clustering - Unsupervised, data grouped together based on what machine sees in the data.
- Regression - analyses relationships between predictors and outcomes
- Naive Bayes - conditional probability, predictors are independent of each other,

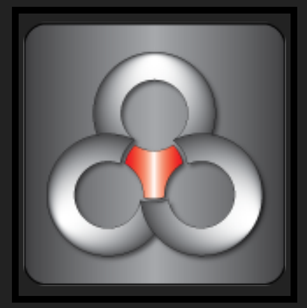


NAME THAT ALGO

MOBILE PATHWAYS PARTNERS

- Amazon -
  - Regression
- Tesla -
  - Neural Networks/Decision Trees
- Rumba -
  - Nieve Bayes
- Spotify -
  - K-mean clustering
- Radiology -
  - K-Nearest Neighbor





MOBILE PATHWAYS PARTNERS

ANY QUESTIONS?