

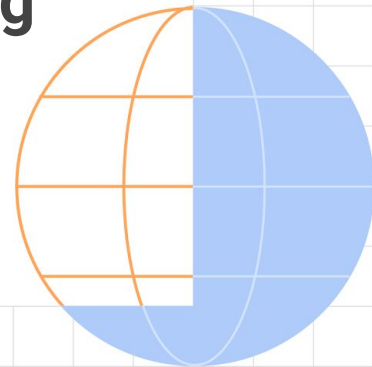


Data science Track

Intro to Machine Learning



Tawadros Gamal
@ DSC Assiut



Content

- What is machine learning
- Supervised learning (Regression- Classification)
- Unsupervised learning (clustering)
- Semi supervised learning
- What is the difference between data science and machine learning
- Hands on colab/ai platform



Wait Soon For the Machine Learning Track

What is Machine Learning?

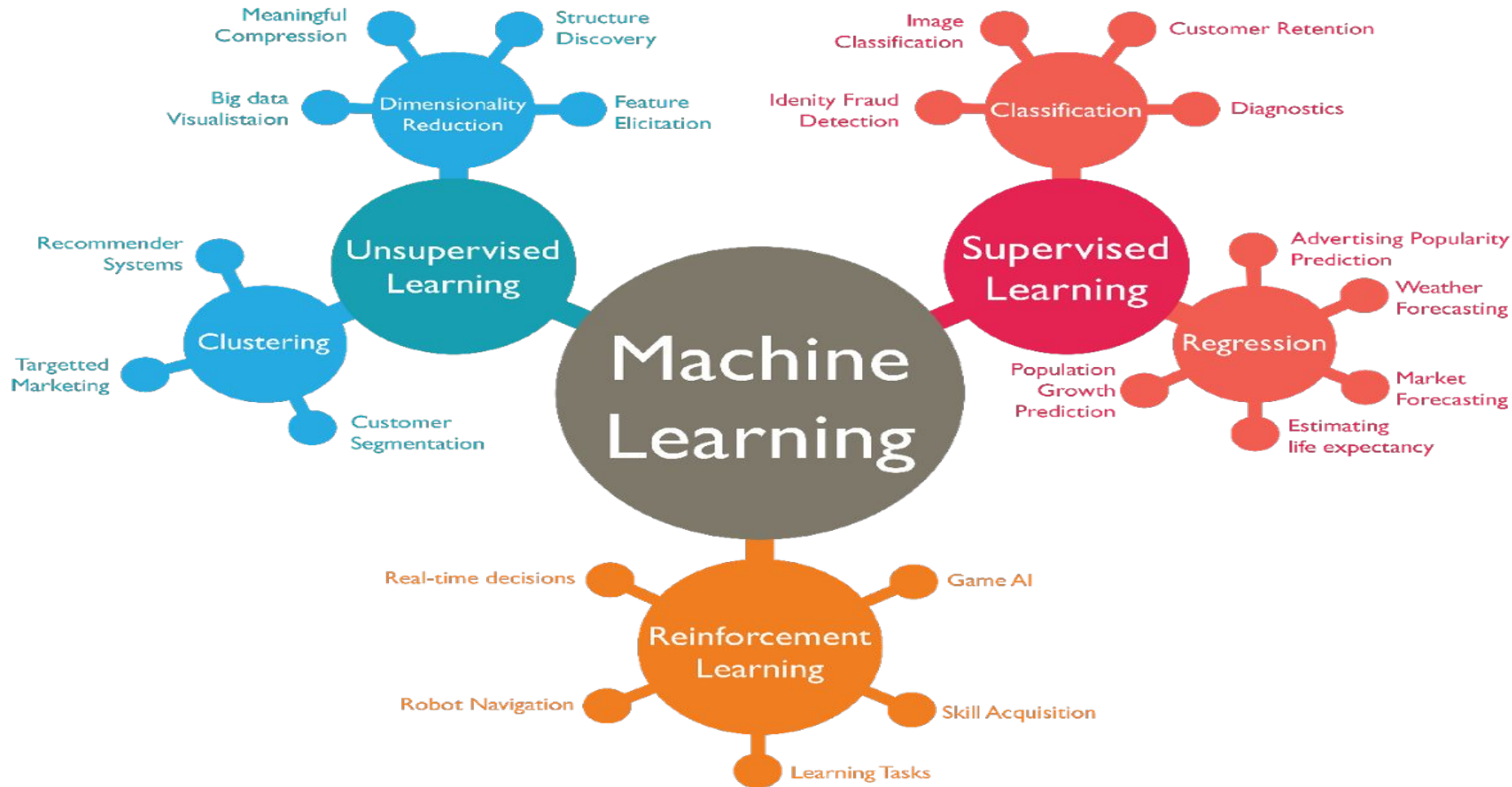


What is Machine Learning



Maths:-

- Linear Algebra
- Multivariate Calculus
- Statistics



Supervised Machine Learning

Clean Data



Dataset



Supervised learning

- **Regression:**

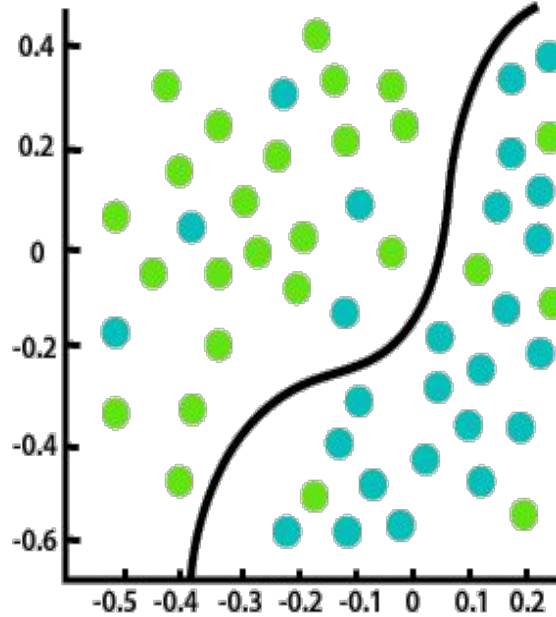
Target : Numerical

Ex: 35.25648 ,552

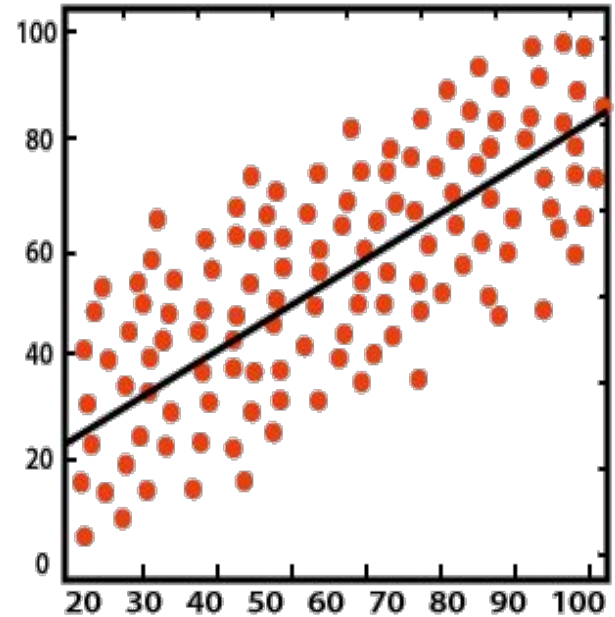
- **Classification:**

Target: Categorical

Ex: flower, Survived



Classification



Regression

Unsupervised Machine Learning



Raw Data

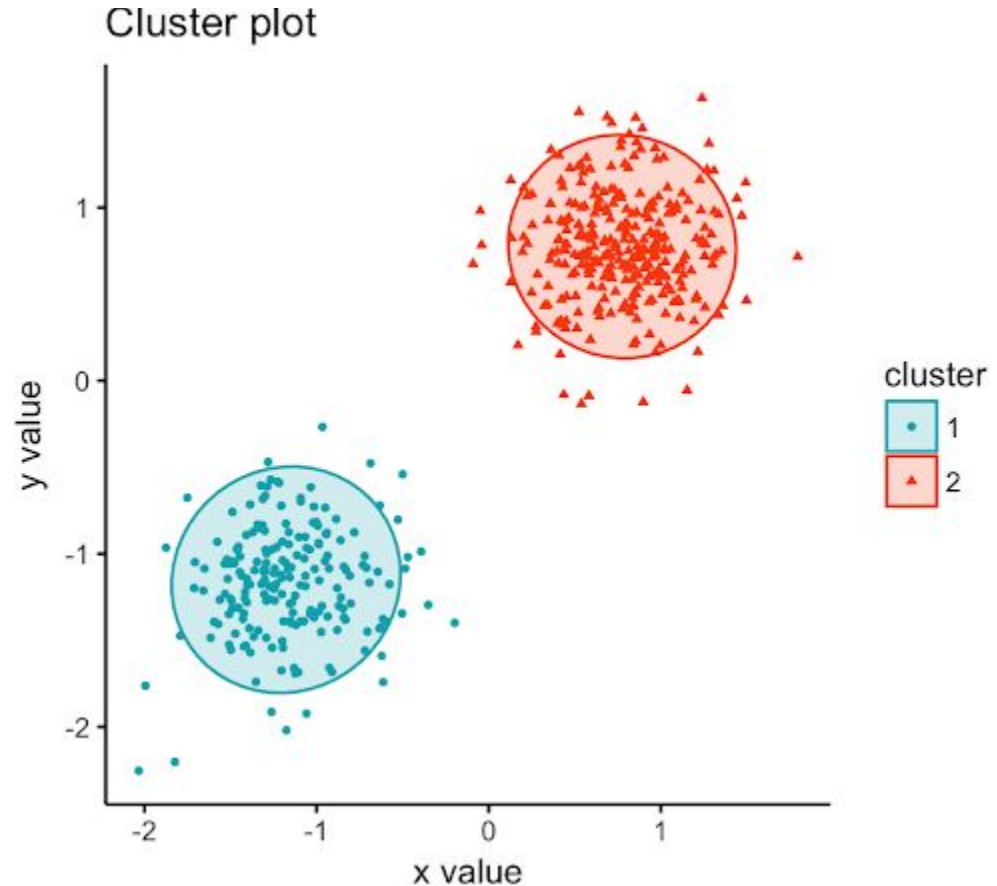


Unsupervised learning







Clustering:-

Cluster 1 (Data Scientists)

Cluster 2(Farmers)



Aligned data

( , )
( , )
( , )













Supervised learning

Disconnecting



Recombining

Unaligned data

{  ,  } {  ,  }
{  ,  } {  ,  }
{  ,  } {  ,  }

Unsupervised learning

Semi-supervised learning



Difference between Data Science & Machine Learning

MACHINE LEARNING



What is Machine learning?

Machine Learning is defined as the practice of using algorithms to use data, learn from it and then forecast future trends for that topic

DATA SCIENCE



What is Data science?

Data Science is a concept used to tackle big data and includes data cleansing, preparation, and analysis





What Skills Make a Machine Learning Expert



Expertise in computer fundamentals



Data modeling and evaluation skills



Knowledge of probability and statistics



In depth knowledge of programming skills



What Skills Make a Data Scientist



Knowledge of machine learning



Understand multiple analytical functions

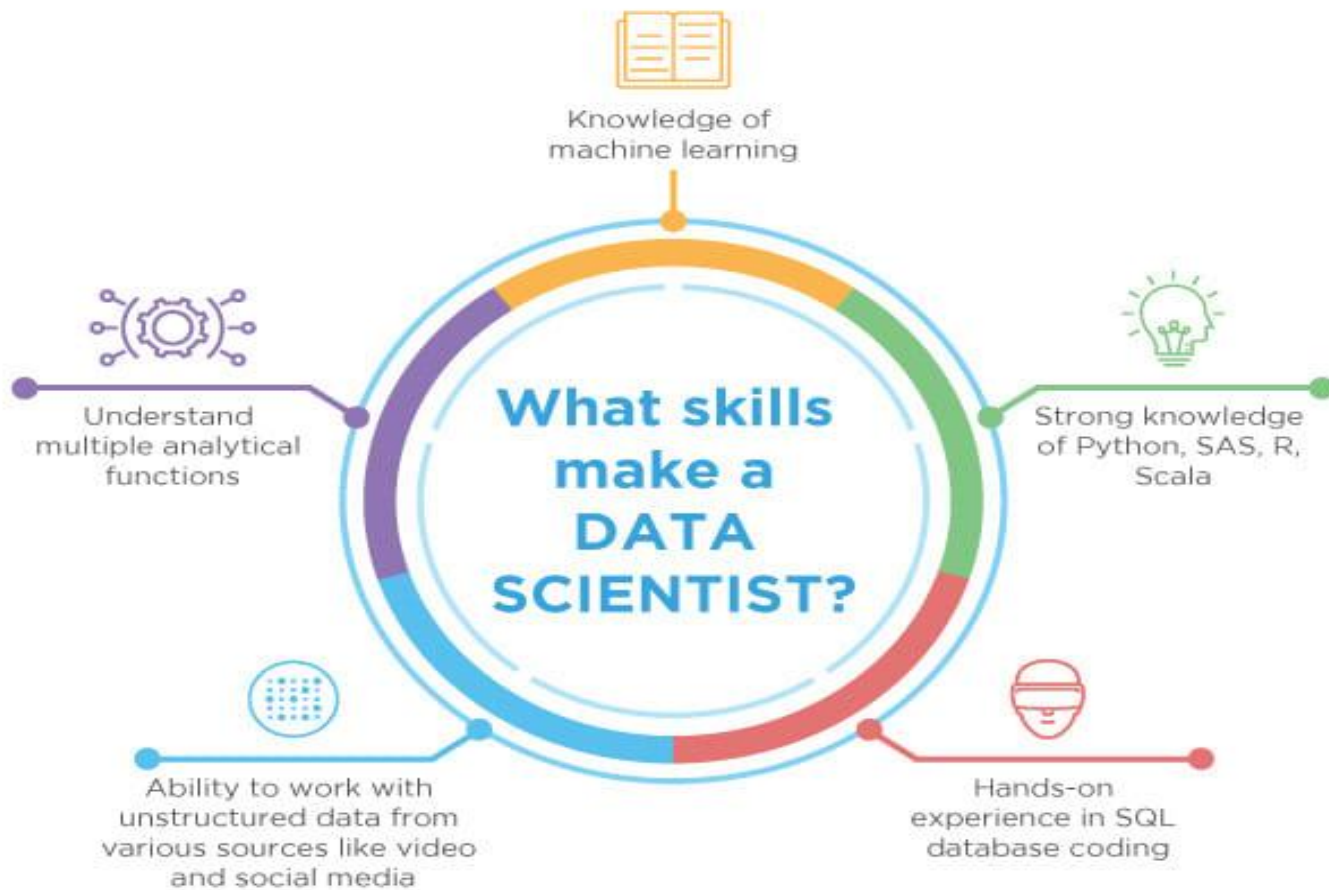


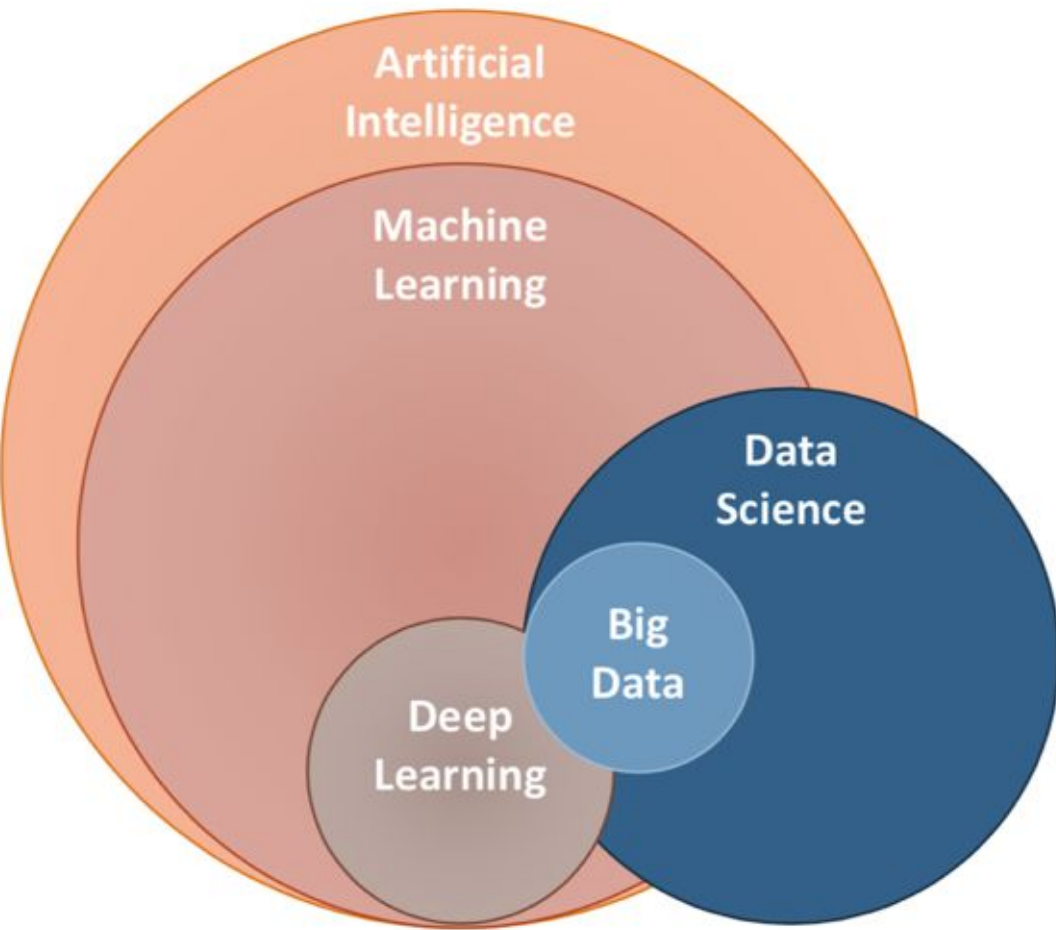
Hands-on experience in SQL database coding



Strong knowledge of Python, SAS, R, Scala







Machine Learning uses various techniques like regression , classification and supervised clustering, on the other hand data may or may not evolve from a machine or mechanical process

Me: *uses machine learning*

Machine: *learns*

Me:



- Visiting colab
- Visiting AI platform



Developer Student Clubs

Assuit University

What is Qwiklabs?

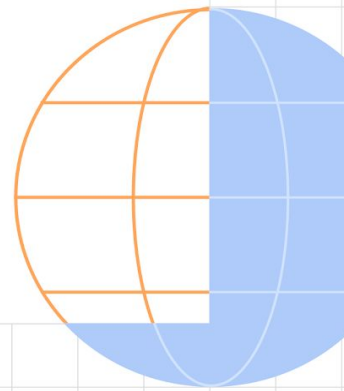


Tuesday 22/9/2020

08:00 PM to 09:00



Abdelrhman Eyad
DSC Assiut Leader & Founder



Any Questions



Remember That
#U_are_Our_mission

Thank You!

