

Data Science Life Cycle

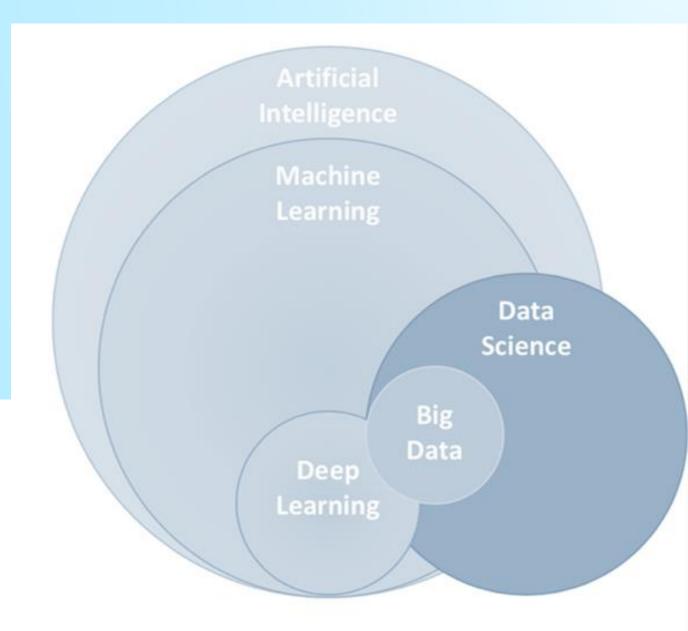


Introduction Business understanding Data understanding **Data preparation Data Modeling Model Evaluation** Model

Deployment

DATA SCIENCE

Data science is the field of study that combines domain expertise, programming skills, and knowledge of mathematics and statistics to extract meaningful insights from data. Data science practitioners apply machine learning algorithms to numbers, text, images, video, audio, and more to produce artificial intelligence (AI) systems to perform tasks that ordinarily require human intelligence. In turn, these systems generate insights which analysts and business users can translate into tangible business value.



DIFFERENT TYPE

- Data Analyst

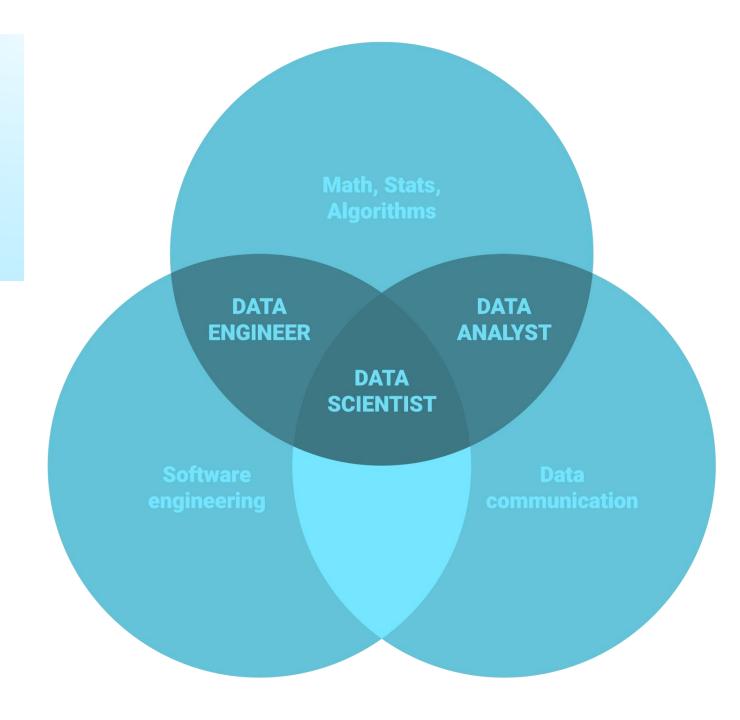
The process of the extraction of information from a given pool of data.

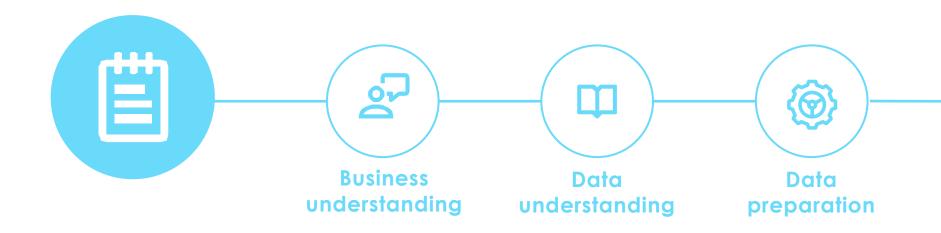
- Data Engineering

person who specializes in preparing data for analytical usage, also involves the development of platforms and architectures for data processing.

- Data Scientist

the field of study that combines domain expertise, programming skills, and knowledge of mathematics and statistics to extract meaningful insights from data.



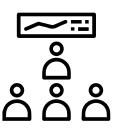




Business Understanding



Understanding Business
Requirements



Analyzing supporting information



Converting to data mining problem



Preparing a preliminary plan

Data Understanding



Data Collection

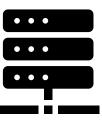


Data Properties

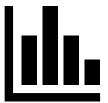


Data Quality

DATA PREPARATION

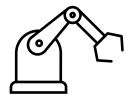






Prepare the data

Data Modeling



Selection and Creation



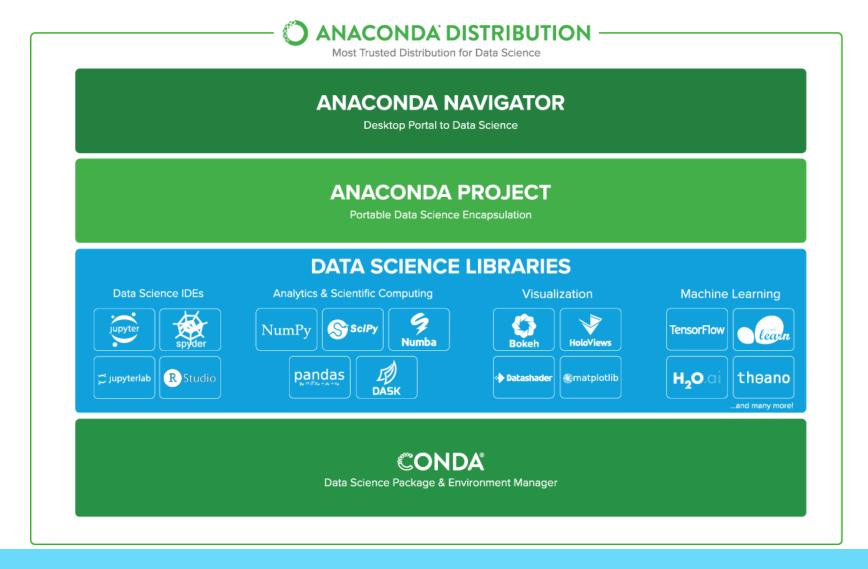
Testing Plan



Parmeter Tunning/Testing



TOOLS



TOOLS





Python

Colab

THANK YOU