



Data Science

Different Role

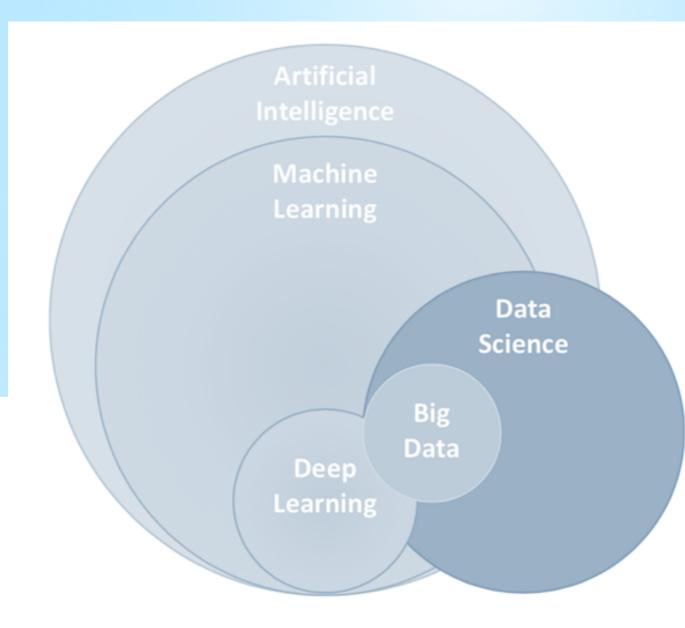
Life Cycle

Tools

Applications

### 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 ROLE

### - Data Analyst

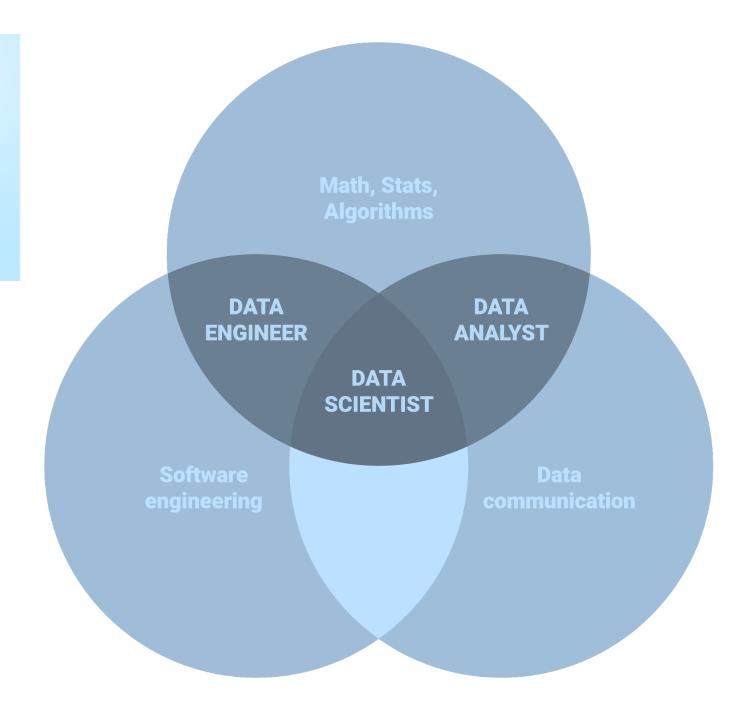
The process of the extraction of information from a given pool of data.

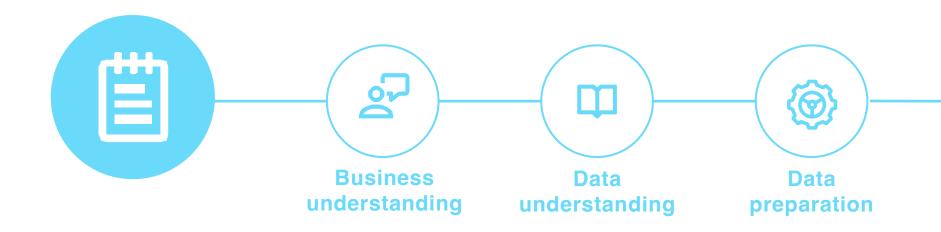
#### - Data Engineering

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.



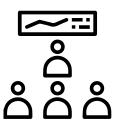




## Business Understanding



Understanding Business Requirements



Analyzing supporting information



Converting to data mining problem

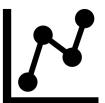


Preparing a preliminary plan

### Data Understanding



**Data Collection** 



**Data Properties** 



**Data Quality** 

# DATA PREPARATION







Prepare the data

## Data Modeling



**Selection and Creation** 



**Testing Plan** 



**Parmeter Tunning/Testing** 

TOOLS

PROCESSING
CONSUMER
ORGANIZATION

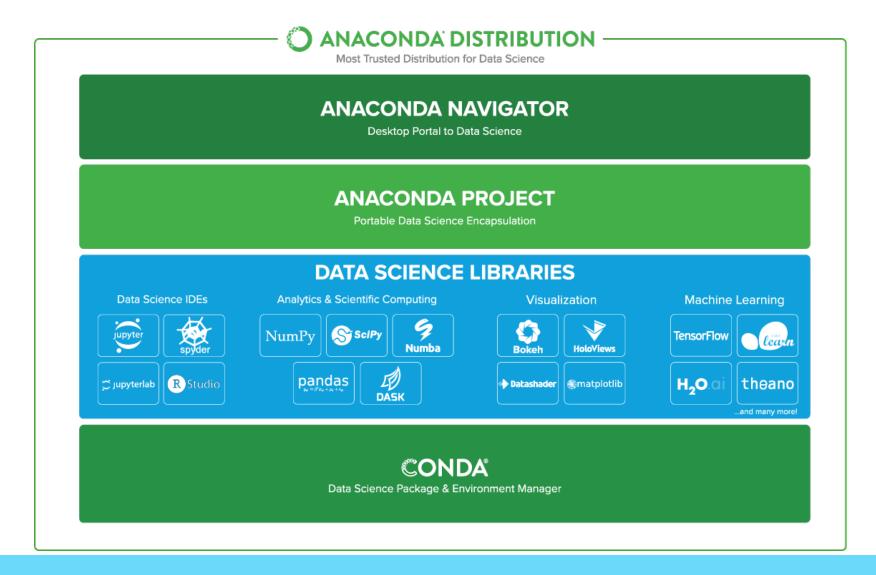
HODELS COMMUNICATION
BRANDING COMPUTER
CONSUMER DEMAND MARKETS
WEB MARKETING

Tools used in Data manipulation EVENTS

SCIENCE

VISION ENGINEERING RESEARCH
PROBABILITY
WEB DEV KDD PROBABILITY
COMPUTING
STRATEGY WORLDWIDE COMPUTING
VISUALIZATION

### **TOOLS**



### TOOLS







Colab

### **APPLICATIONS**

Today's Applications that Used As Data Science Projects.



## APPLICATIONS



**E-Commerce** 



Logistics



**Image Recognition** 



**Finance** 

## THANK YOU