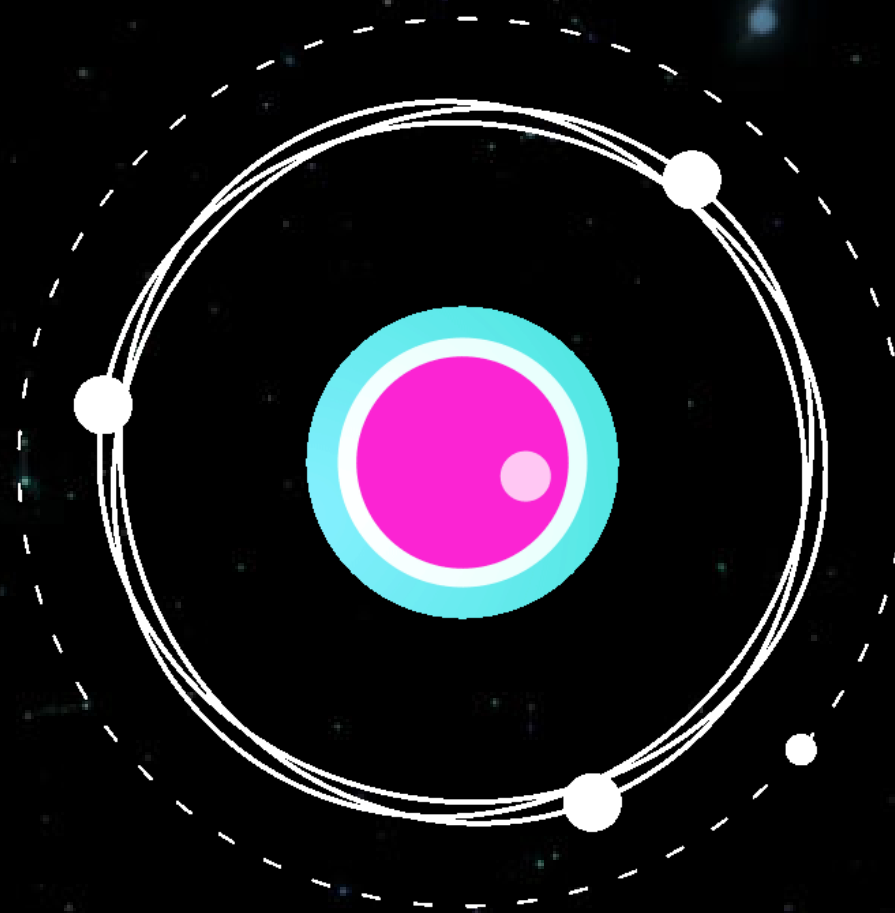


DATA CELL TRAINING ROADMAP

INPT

CIT



MADE BY:

IMANE BOUKHRIS

TAHA ELGHABI



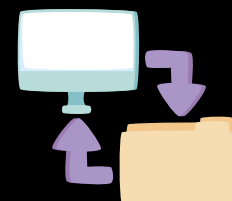


PLAN

OVERVIEW, DATA ROADMAP



DATA COLLECTION



EXPLORATORY DATA ANALYSIS



CLEANING, FEATURE ENGINEERING



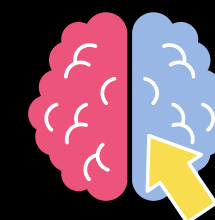
VISUALIZATION



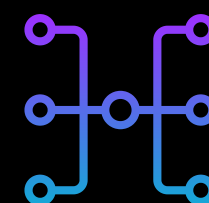


PLAN

INTRO TO MACHINE LEARNING



MODEL BUILDING



HYPERPARAMETERS OPTIMIZATION



MODEL EVALUATION



MLOPS



OVERVIEW

DATA SCIENCE ROADMAP





P L A N

- Data Science buzzwords



- What the heck is Data Science



- Workflow of a Data Science Project



- **Tools** that we'll be using



- Some tips and resources



Data Science buzzwords



Artificial Intelligence

Business Intelligence

Data Science

Case Study

Big Data

Machine Learning

Data Analysis

Business Analytics

Statistics

Deep Learning

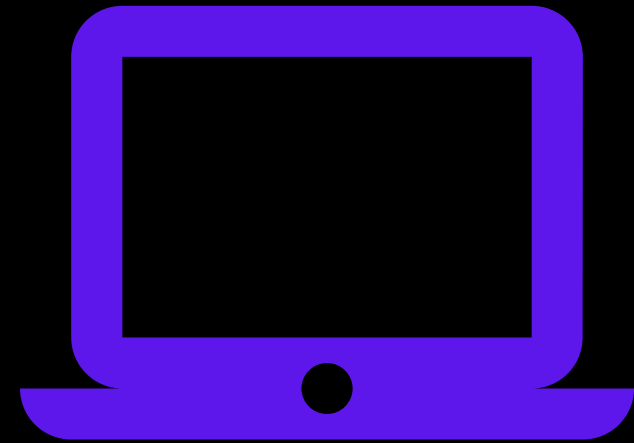
SDOTM



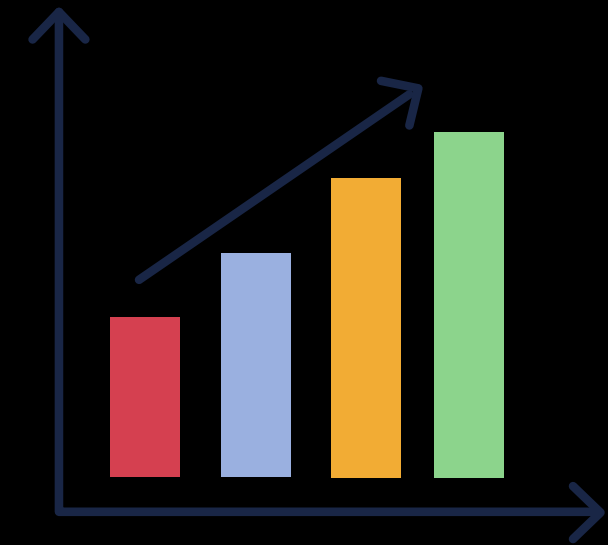
What the heck is Data Science



Computer Science



Math & Statistics



Domain Knowledge



What is Data?



Data is a bunch of facts,
such as numbers, words,
measurements...

or could be a descriptions
of things **used to better
understand a subject**

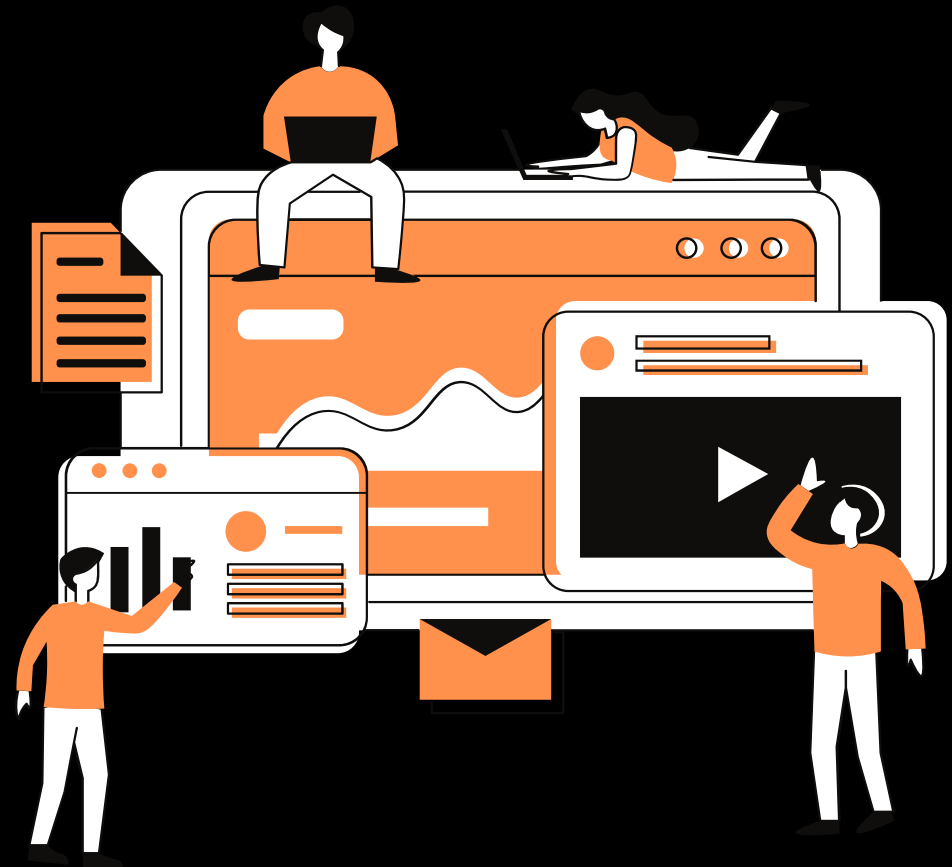


Types of Data

Structured



Unstructured



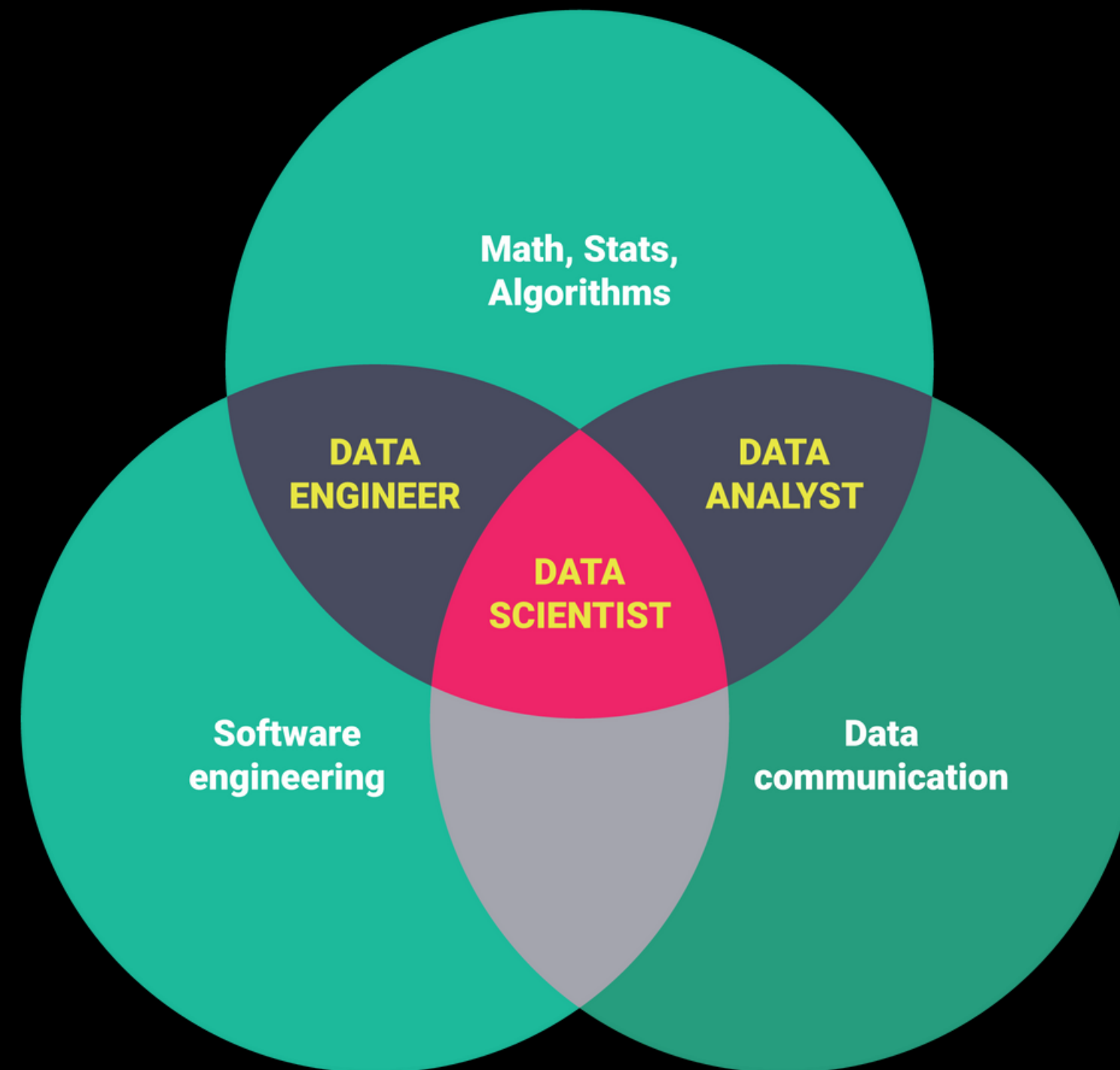
"It all starts with a **Dataset**"

- Unknown Data Scientist

	PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin
0	1	0	3	Braund, Mr. Owen Harris	male	22.0	1	0	A/5 21171	7.2500	NaN
1	2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Th...	female	38.0	1	0	PC 17599	71.2833	C85
2	3	1	3	Heikkinen, Miss. Laina	female	26.0	0	0	STON/O2. 3101282	7.9250	NaN
3	4	1	1	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	35.0	1	0	113803	53.1000	C123
4	5	0	3	Allen, Mr. William Henry	male	35.0	0	0	373450	8.0500	NaN



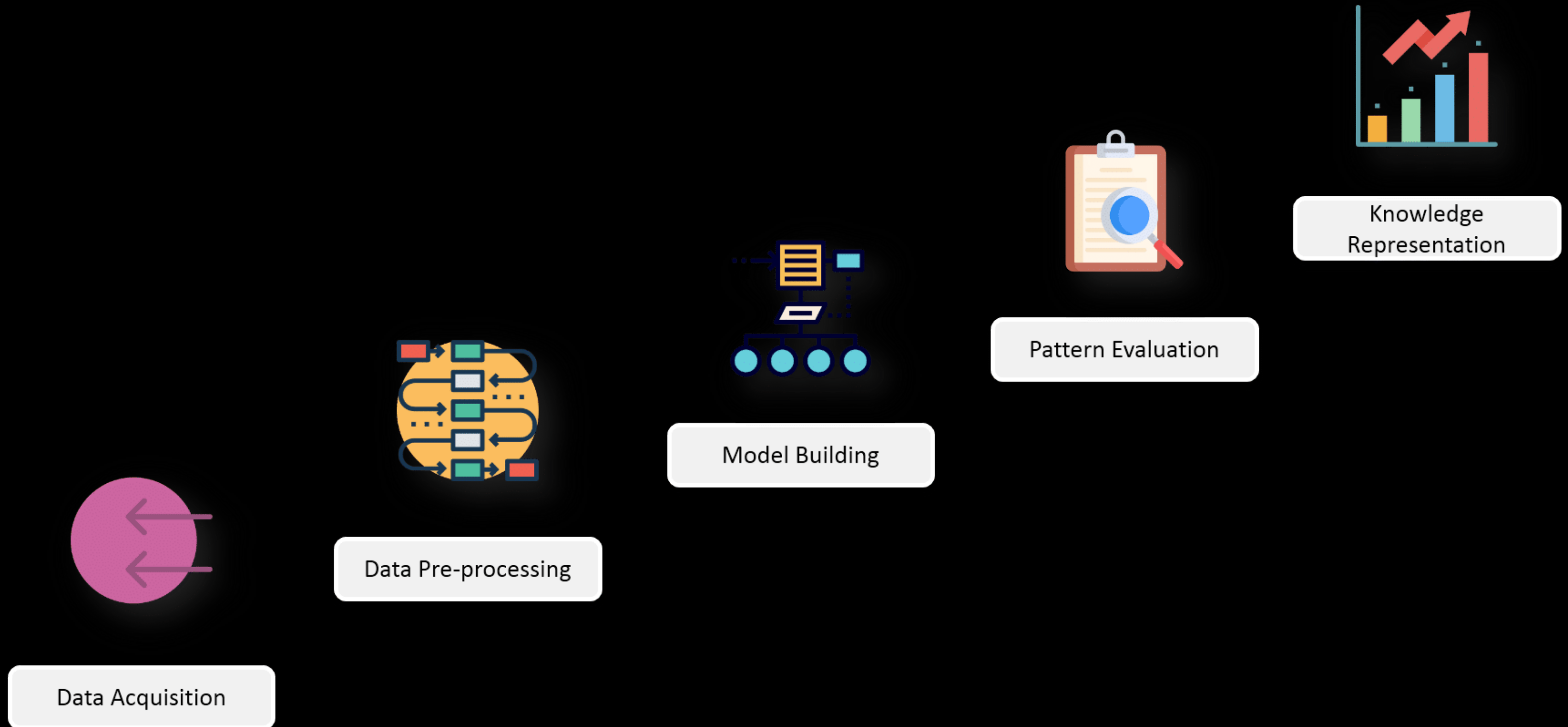
Data Scientist, Engineer, Analyst ?



Workflow of a Data Science Project



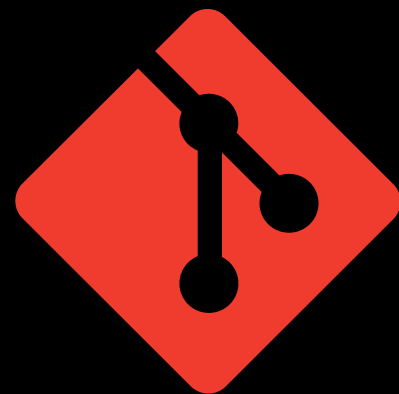
Data Science Lifecycle



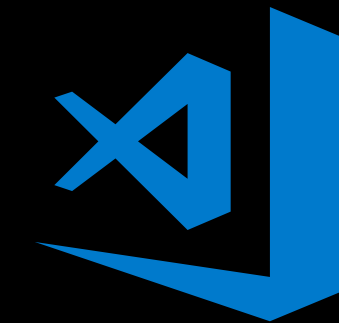
Tools that we'll be using



IDEs and Languages



git



Visual Studio Code



Some tips and resources





ASK Question It's Free

