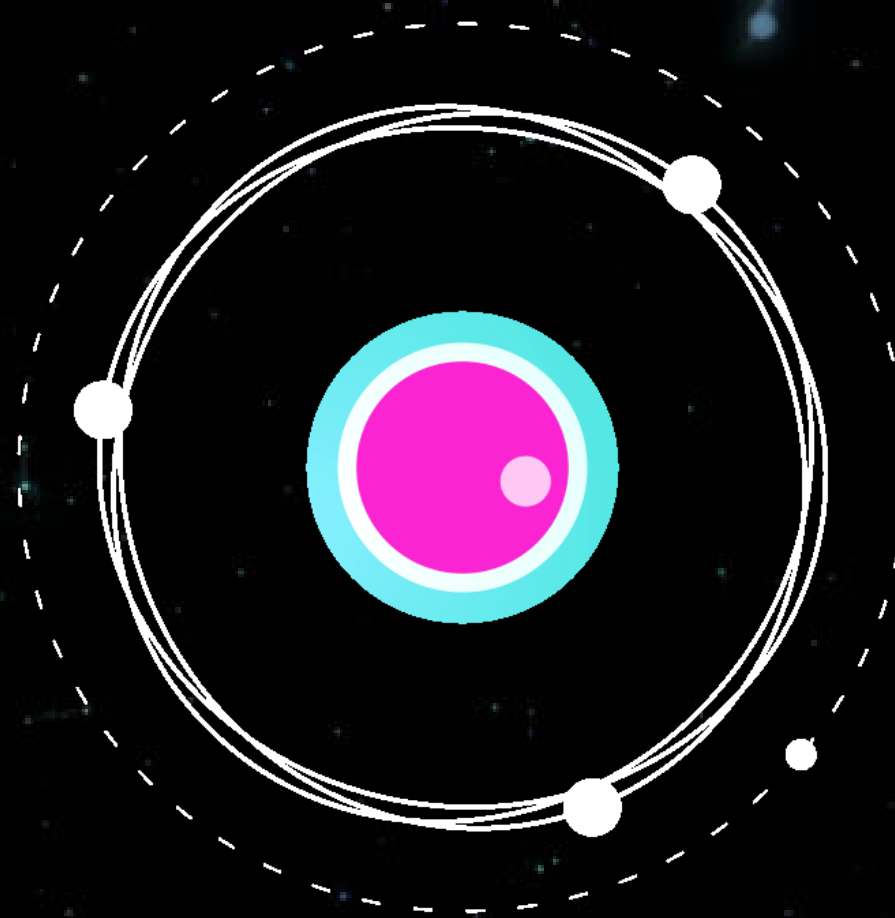


DATA CELL TRAINING ROADMAP

INPT

CIT



MADE BY:

TAHA ELGHABI



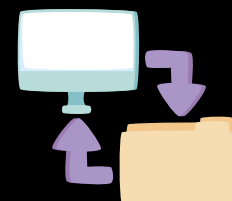


PLAN

OVERVIEW, DATA ROADMAP



DATA COLLECTION



EXPLORATORY DATA ANALYSIS



CLEANING, FEATURE ENGINEERING



VISUALIZATION



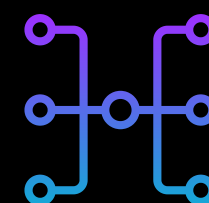


PLAN

INTRO TO MACHINE LEARNING



MODEL BUILDING



HYPERPARAMETERS OPTIMIZATION



MODEL EVALUATION



MLOPS



DATA CELL TRAINING

S1: AN OVERVIEW

INPT

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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



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



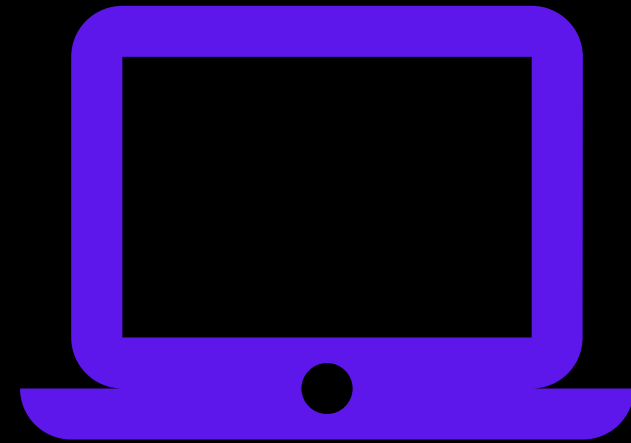
"It all starts with a **Dataset**"

- Unknown Data Scientist

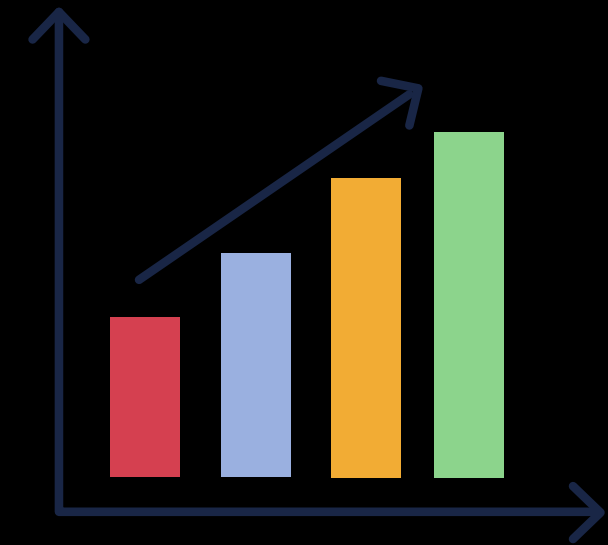
	PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin
0	1	0	3	Braund, Mr. Owen Harris	male	22.0	1	0	A/5 21171	7.2500	NaN
1	2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Th...	female	38.0	1	0	PC 17599	71.2833	C85
2	3	1	3	Heikkinen, Miss. Laina	female	26.0	0	0	STON/O2. 3101282	7.9250	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



Computer Science

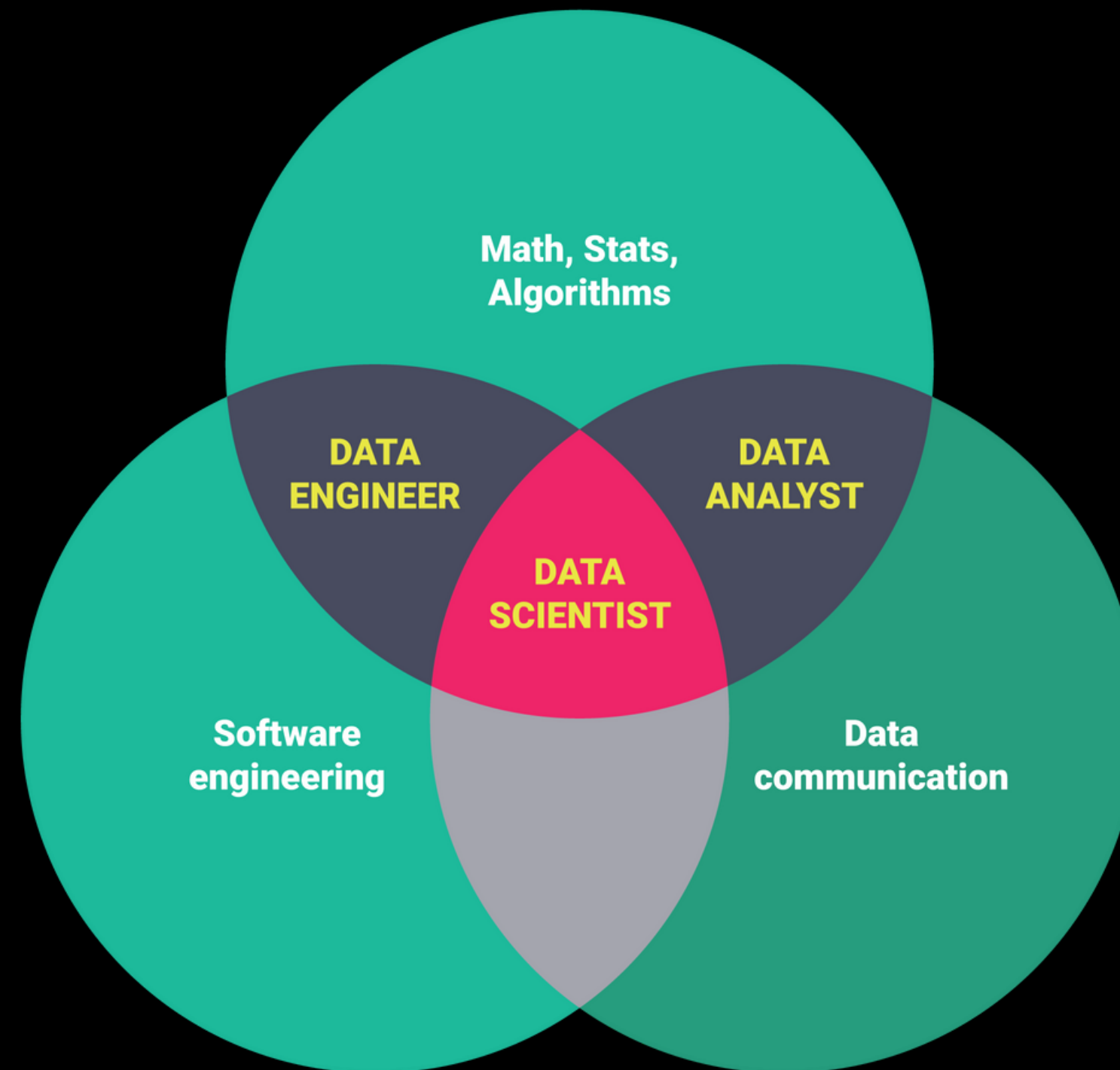


Math & Statistics



Domain Knowledge

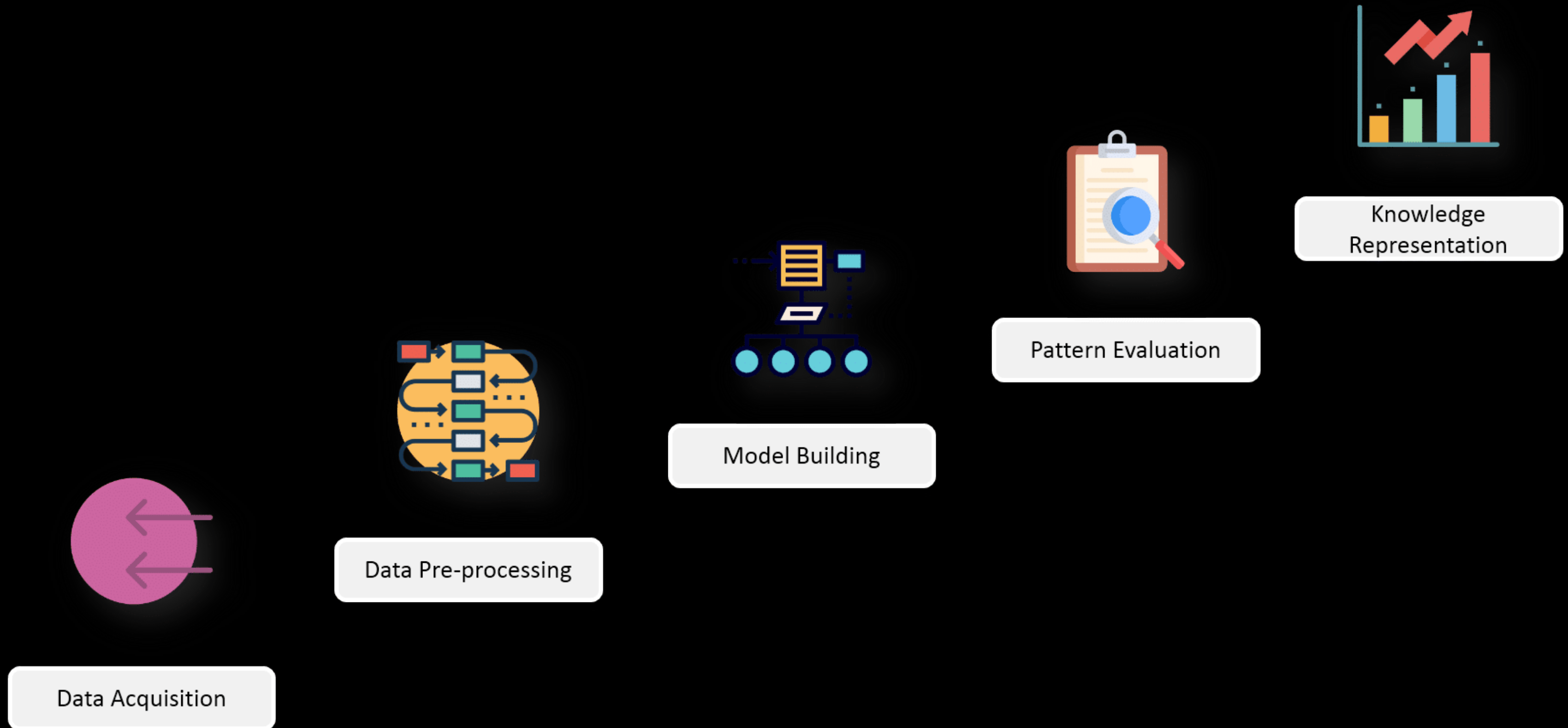
Data Scientist, Engineer, Analyst ?



Workflow of a Data Science Project



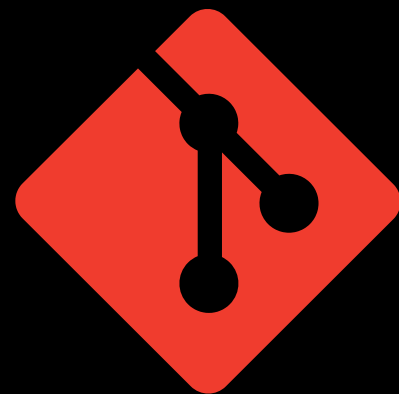
Data Science Lifecycle



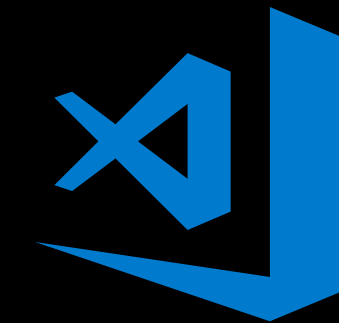
Tools that we'll be using



IDEs and Languages



git



Visual Studio Code

Some tips and resources



kaggle



ASK Question It's Free