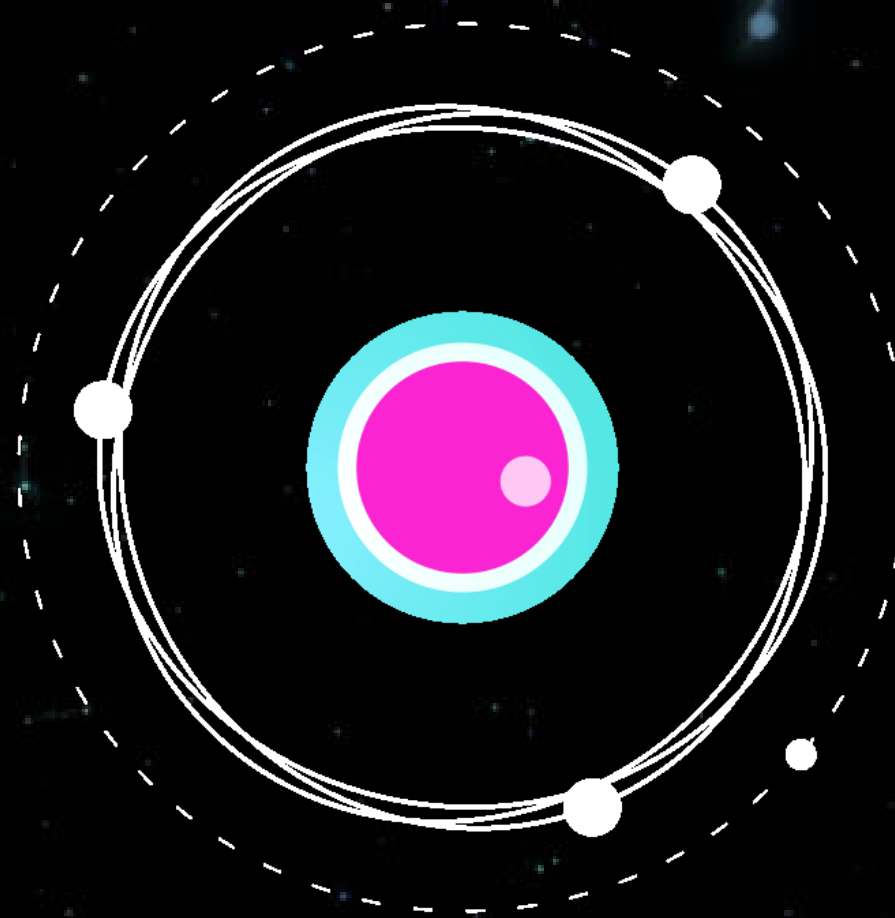


DATA CELL TRAINING ROADMAP

INPT

CIT

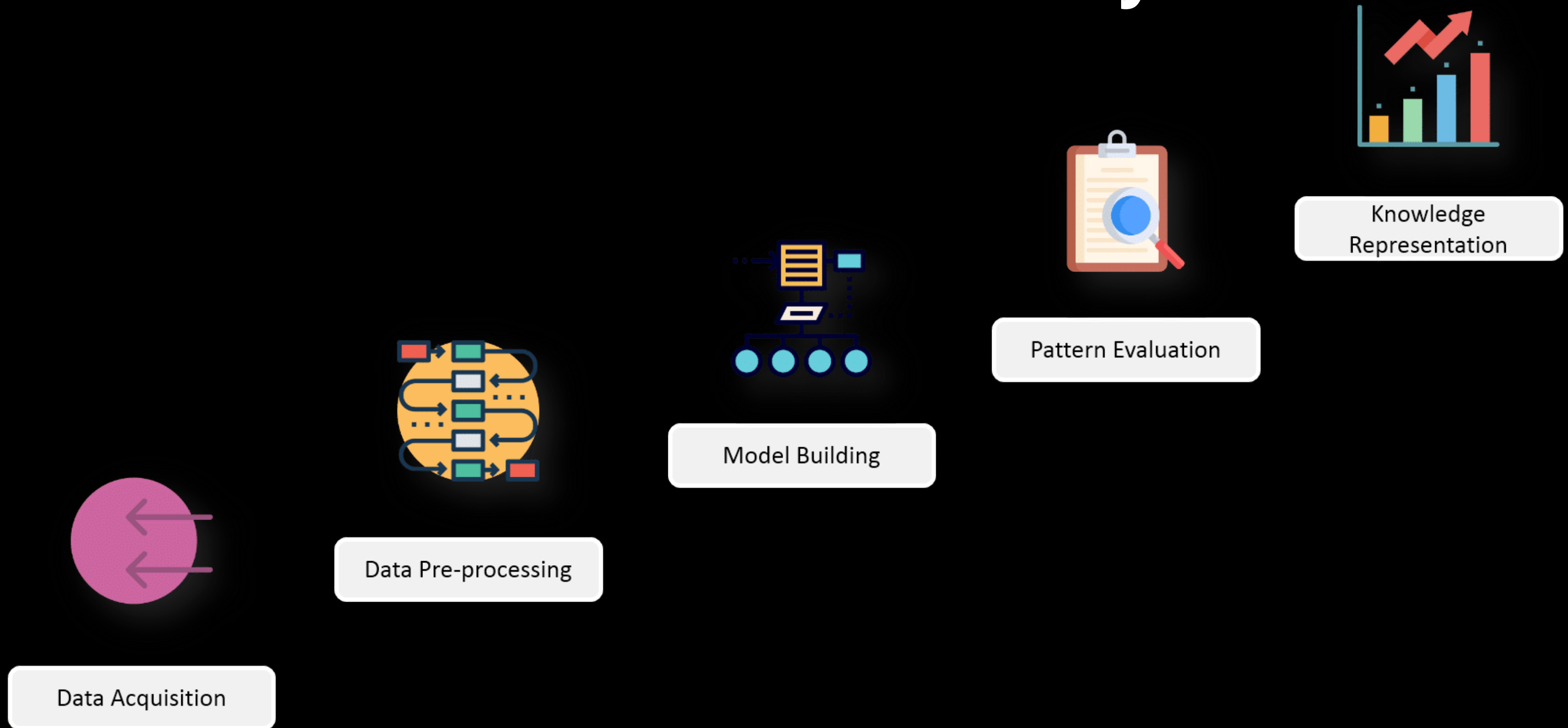


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TAHA ELGHABI

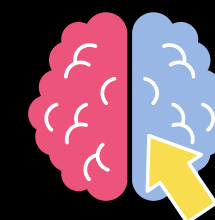


Data Science Lifecycle

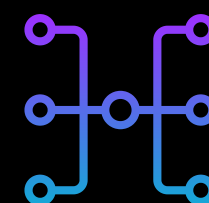




INTRO TO MACHINE LEARNING



MODEL BUILDING



HYPERPARAMETERS OPTIMIZATION



MODEL EVALUATION



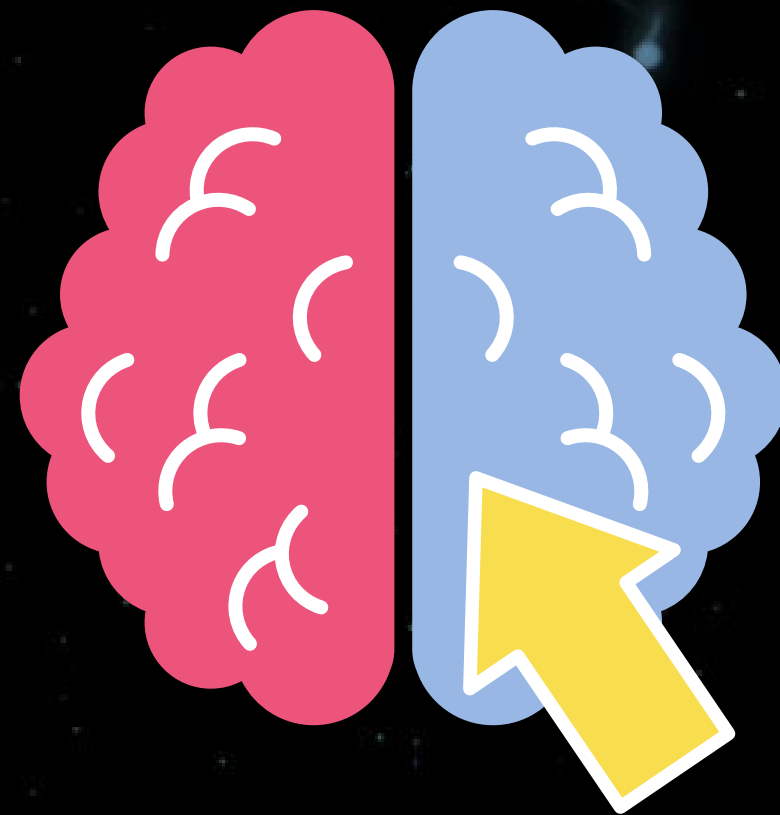
MLOPS



DATA CELL TRAINING

S10: INTRO TO MACHINE LEARNING

INPT



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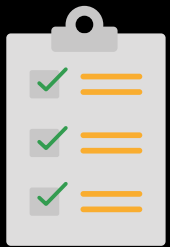
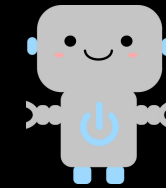


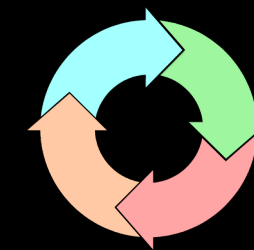
TABLE OF CONTENT

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- what can ML do and How ?

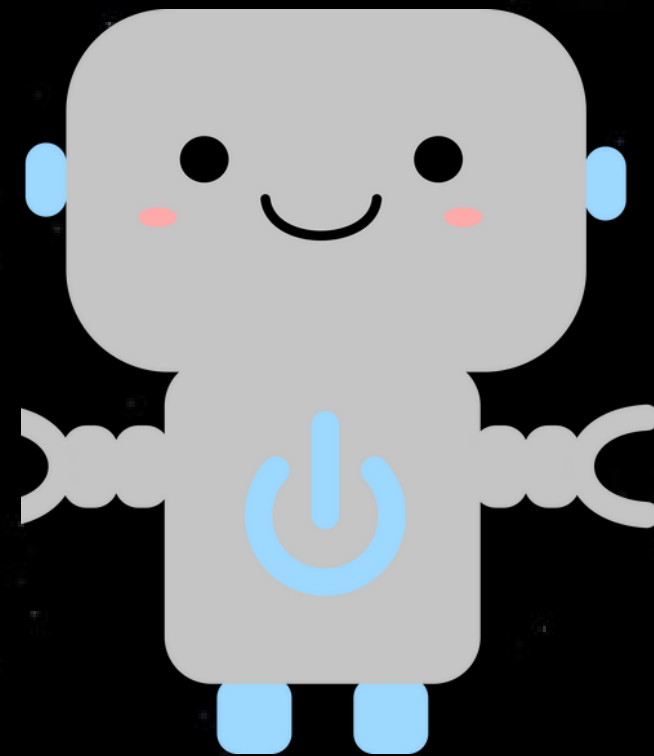
- Machine Learning WorkFlow



- Some tips and resources



What the heck is ML



Real world Examples

AlphaZero beat humans at Chess and StarCraft, now it's working with quantum computers

Machine Learning Gives Rise to Better Lung Disease Models from Stem Cells

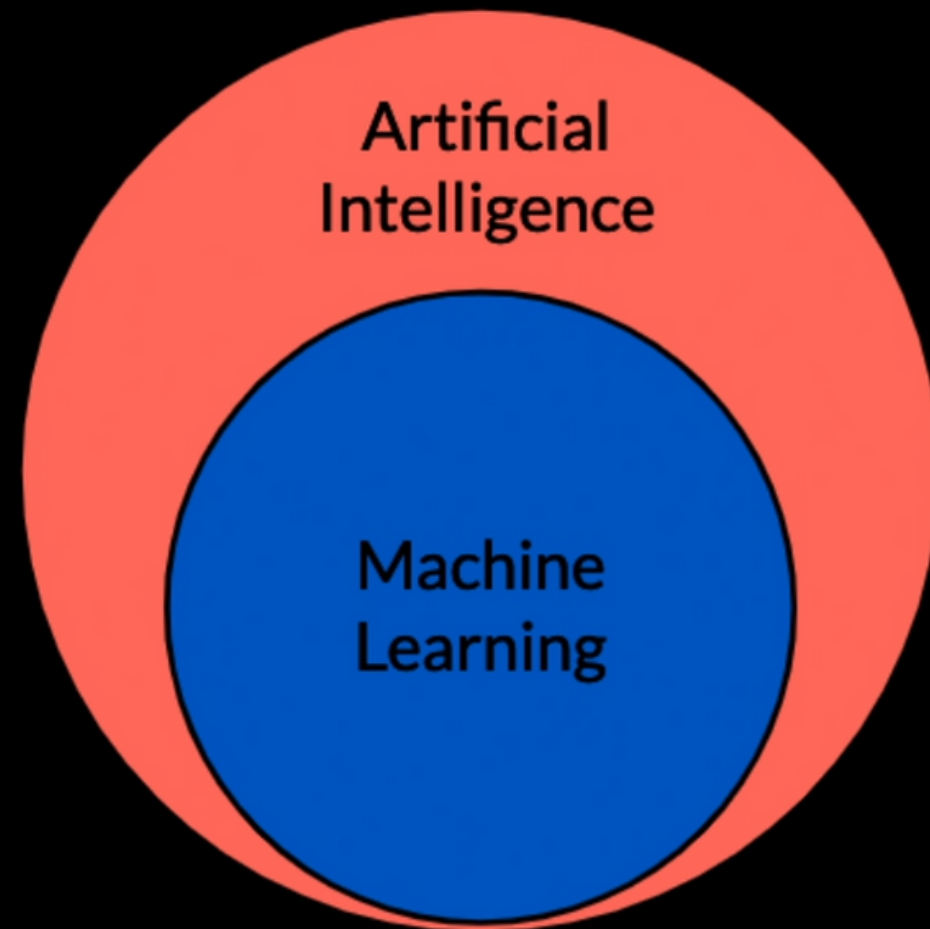
AI Blood Test Predicts Neurodegenerative Disease Progression, Severity

Amazon is injecting Alexa with more artificial intelligence than ever

How Google Maps uses machine learning to predict bus traffic delays in real time



AI vs ML

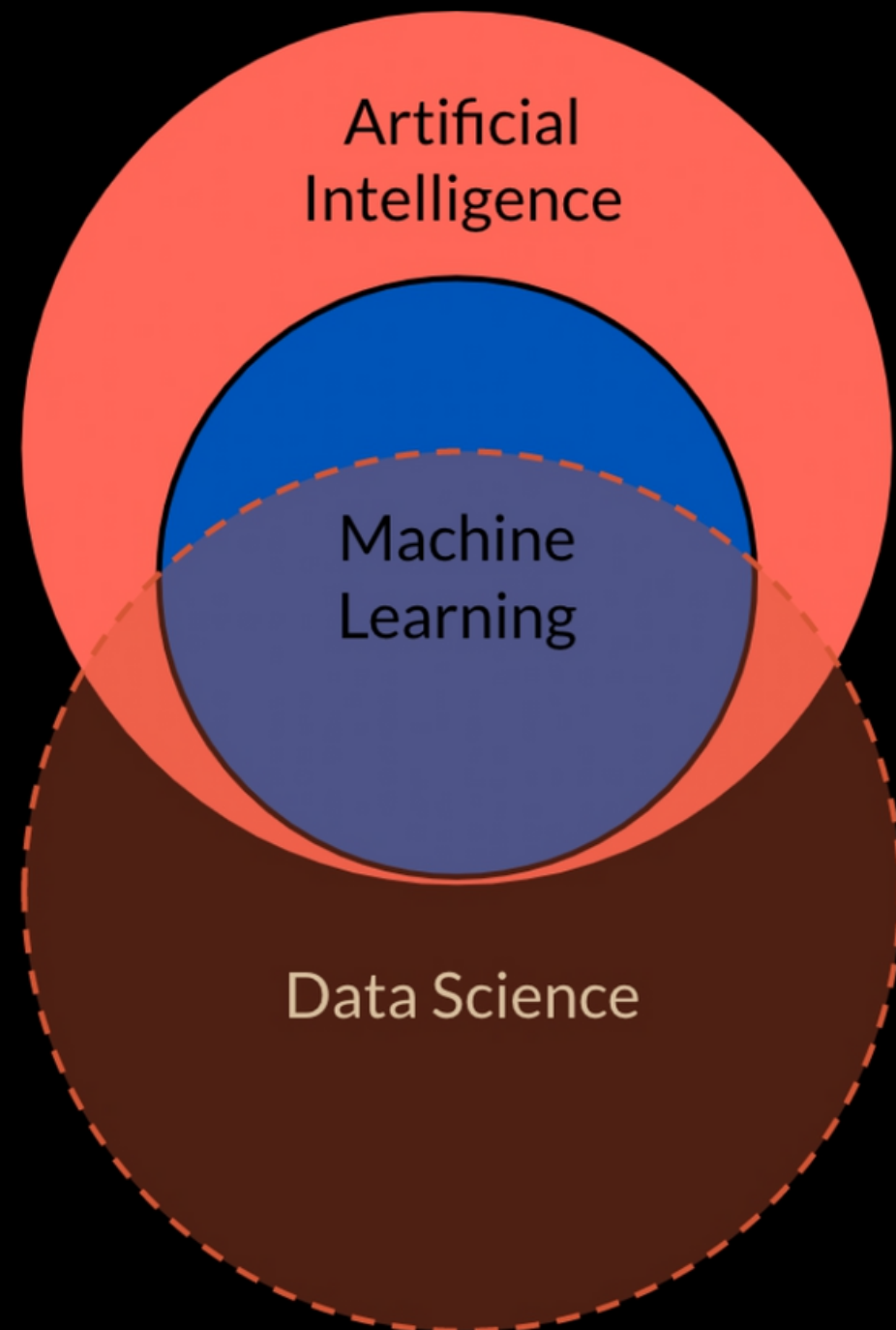


A huge set of tools for making computers behave intelligently

Machine learning is the most prevalent subset of AI



AI vs ML



Data science is about making discoveries and creating insights from data

Machine learning is often an important tool for data science work



what can ML do and How



what is it capable of ?

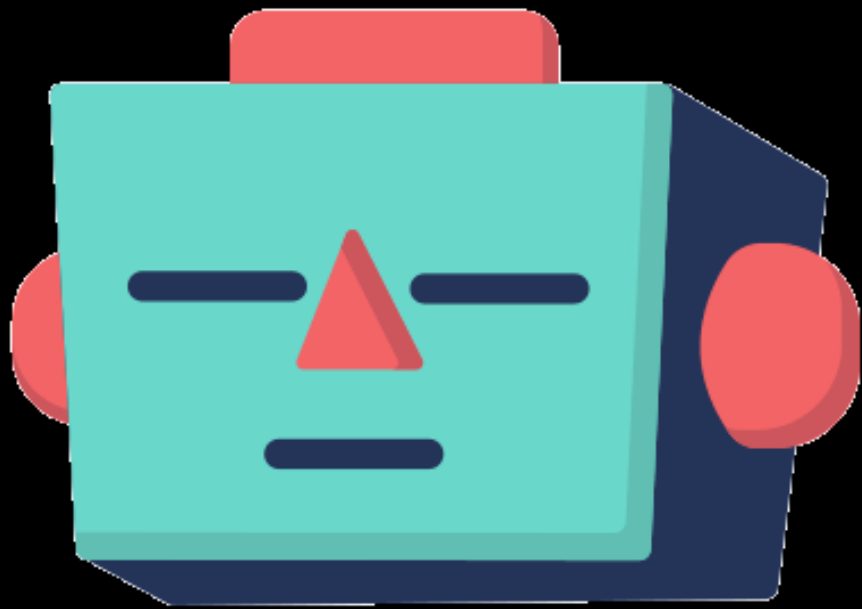


Predict

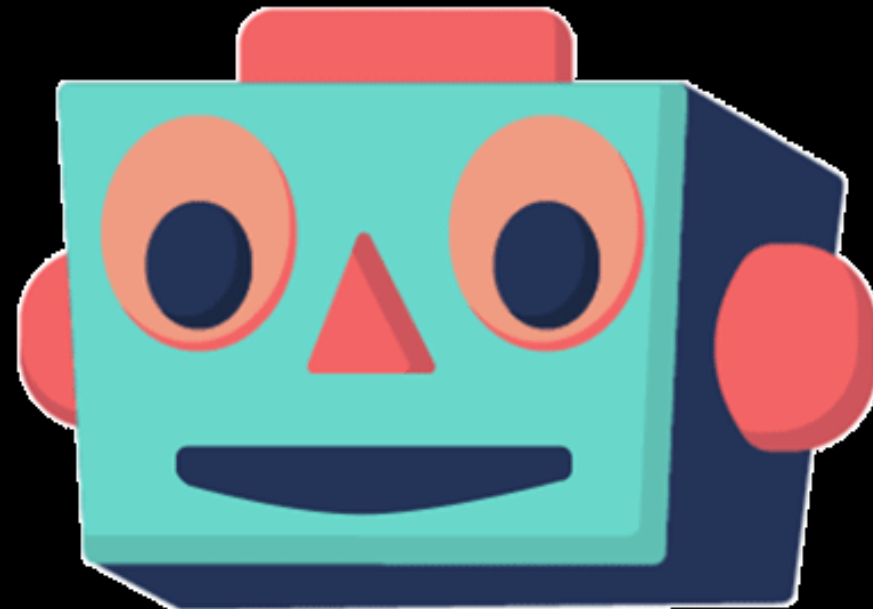


Infer

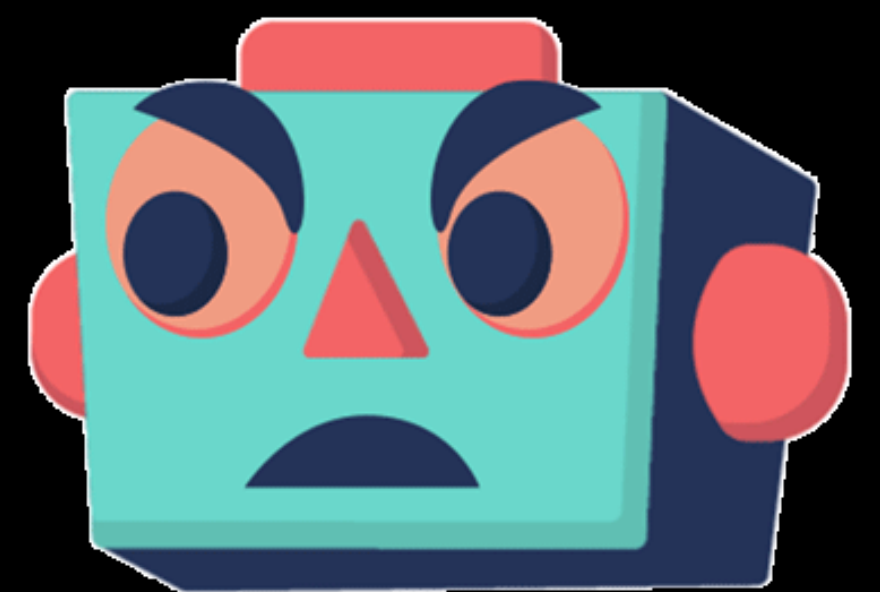
Types of Machine learning



Supervised



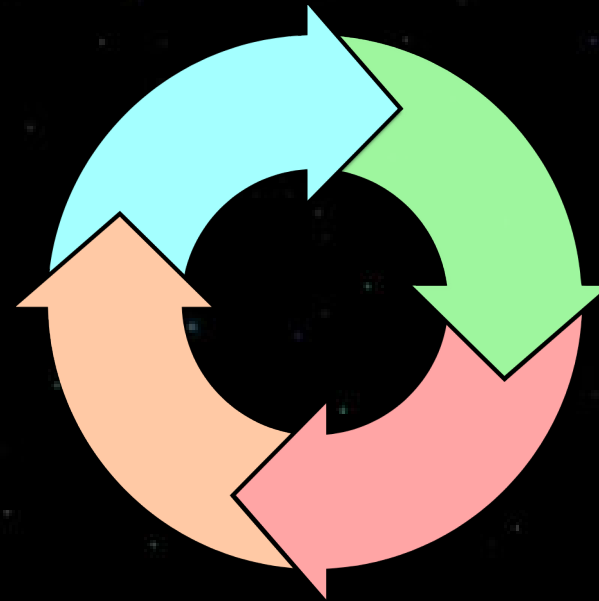
Unsupervised



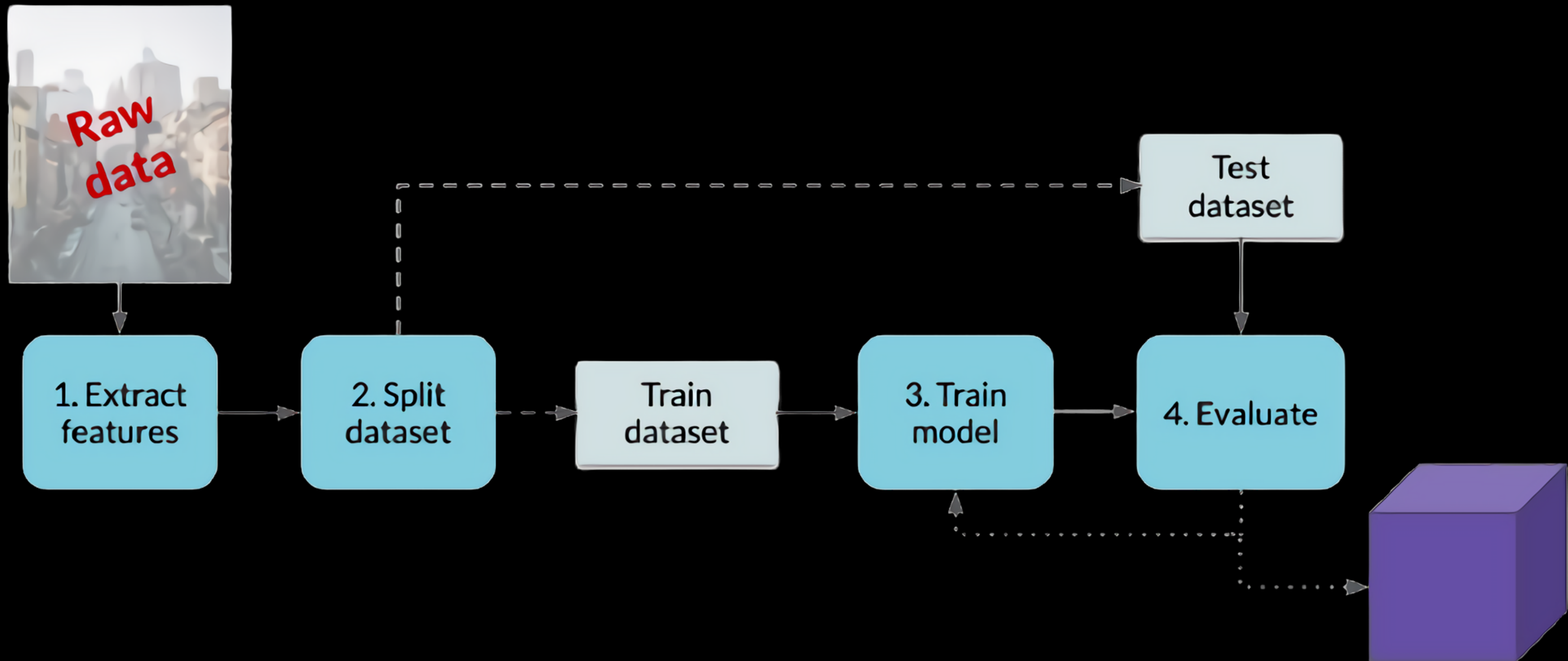
Reinforcement



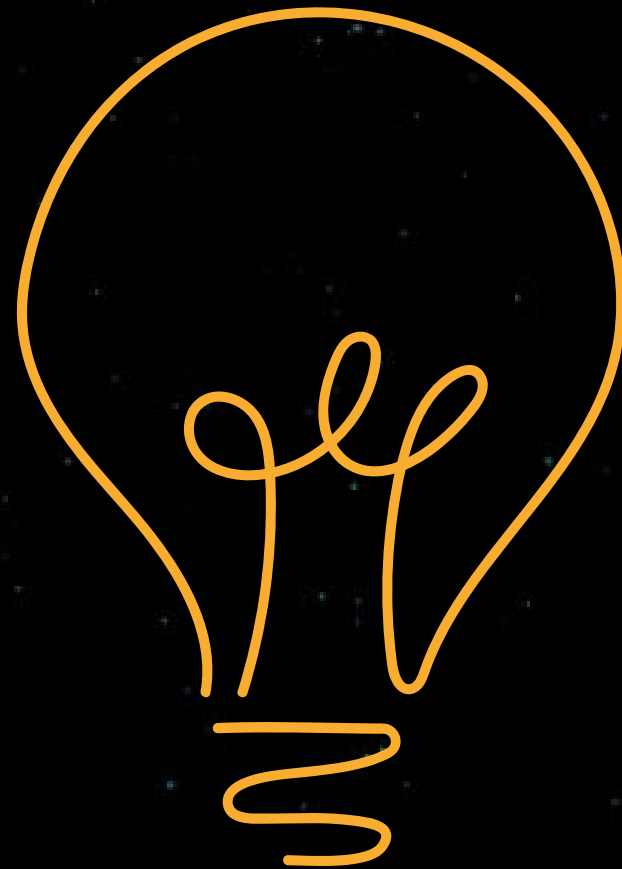
Machine Learning Workflow



Machine Learning Process

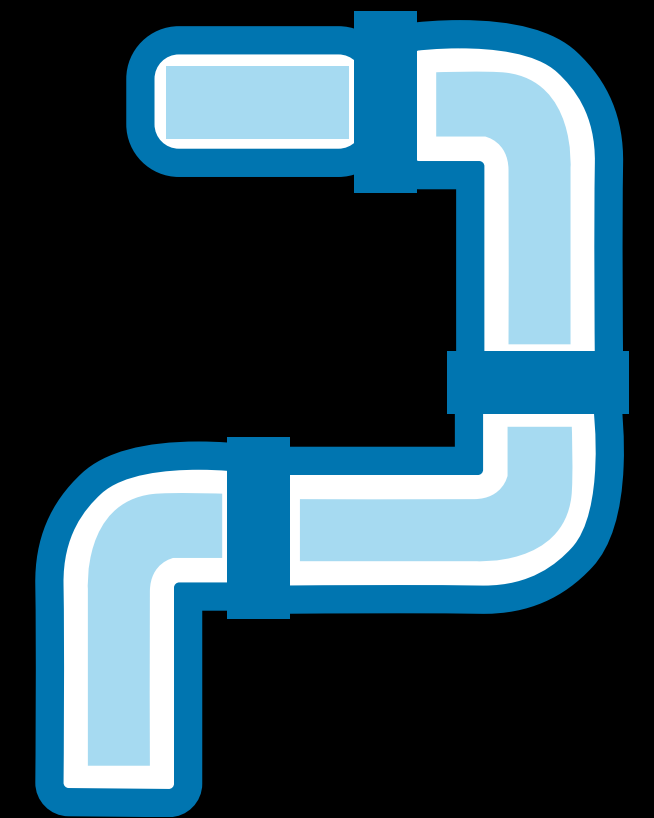
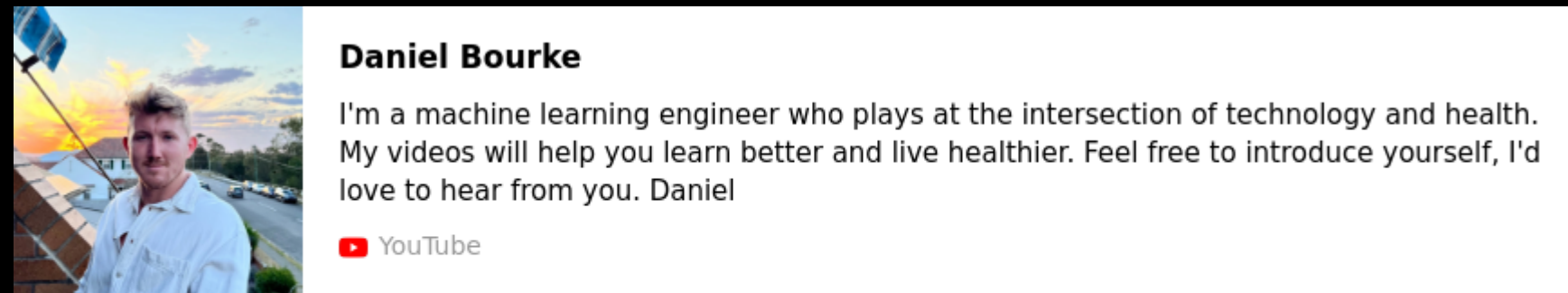


Some **tips** and **resources**





**Build Model
From scratch!**



**Pipelines Are
Awesome!**



Some math would help

