

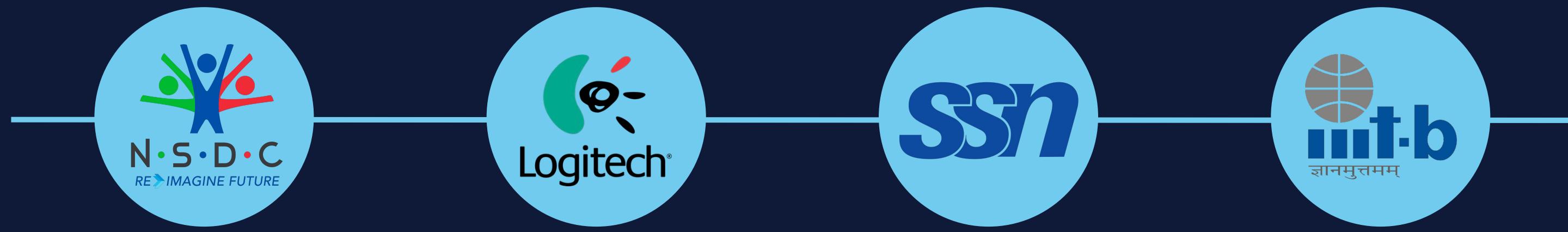
Incepez Datascience Batch 22

Laxminarayen

 Incepez
Technology



About Me



PG-Diploma DS
Foundations of ML - DL
and Stats

Data Scientist
Tailor marketing
strategies, enhancing
product offerings, and
optimize user
experiences

Visiting Lecturer
I acquired new
perspectives, refine my
teaching techniques, and
witness students' growth

Research Scholar
Collaborated with experts,
and contributed to
cutting-edge AI
advancements.

Data Science Perspectives

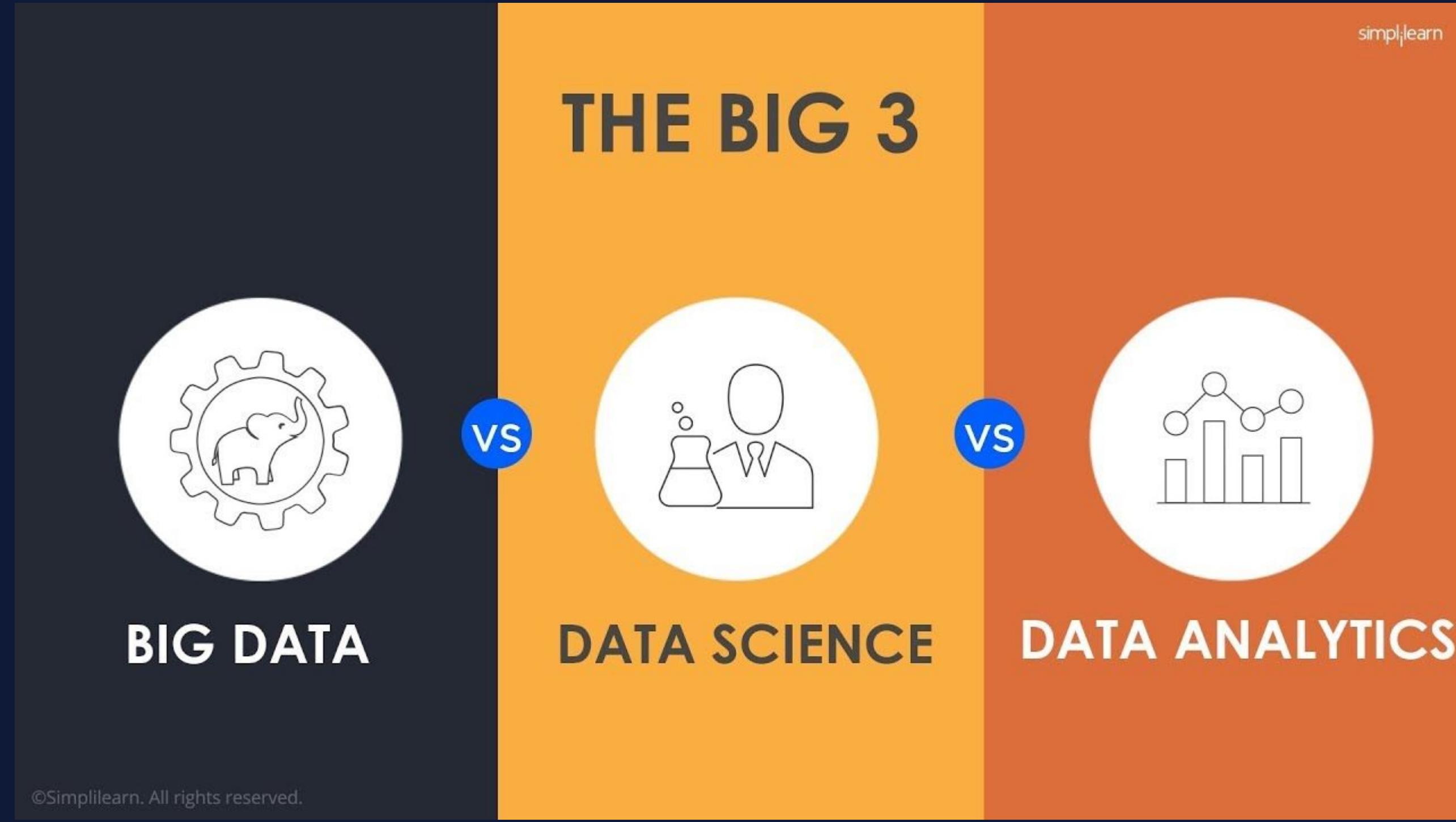
Business Intelligence



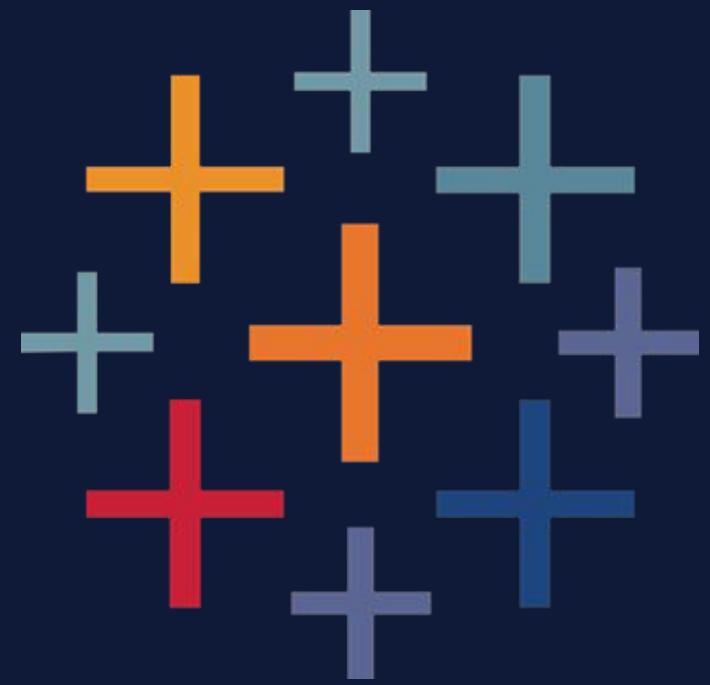
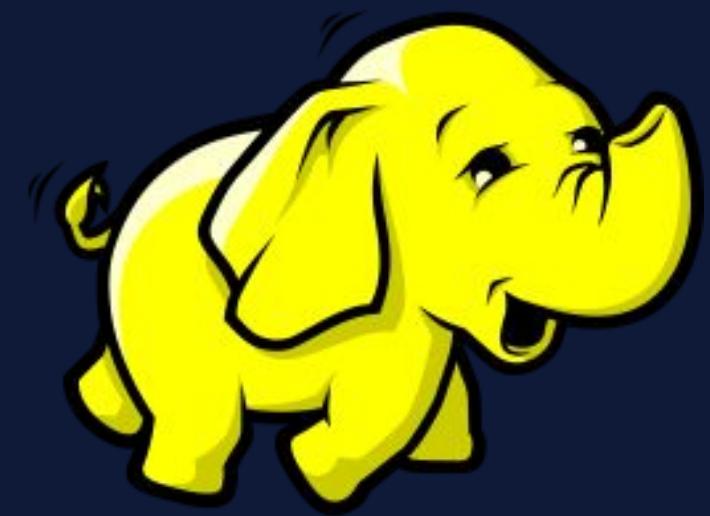
Research



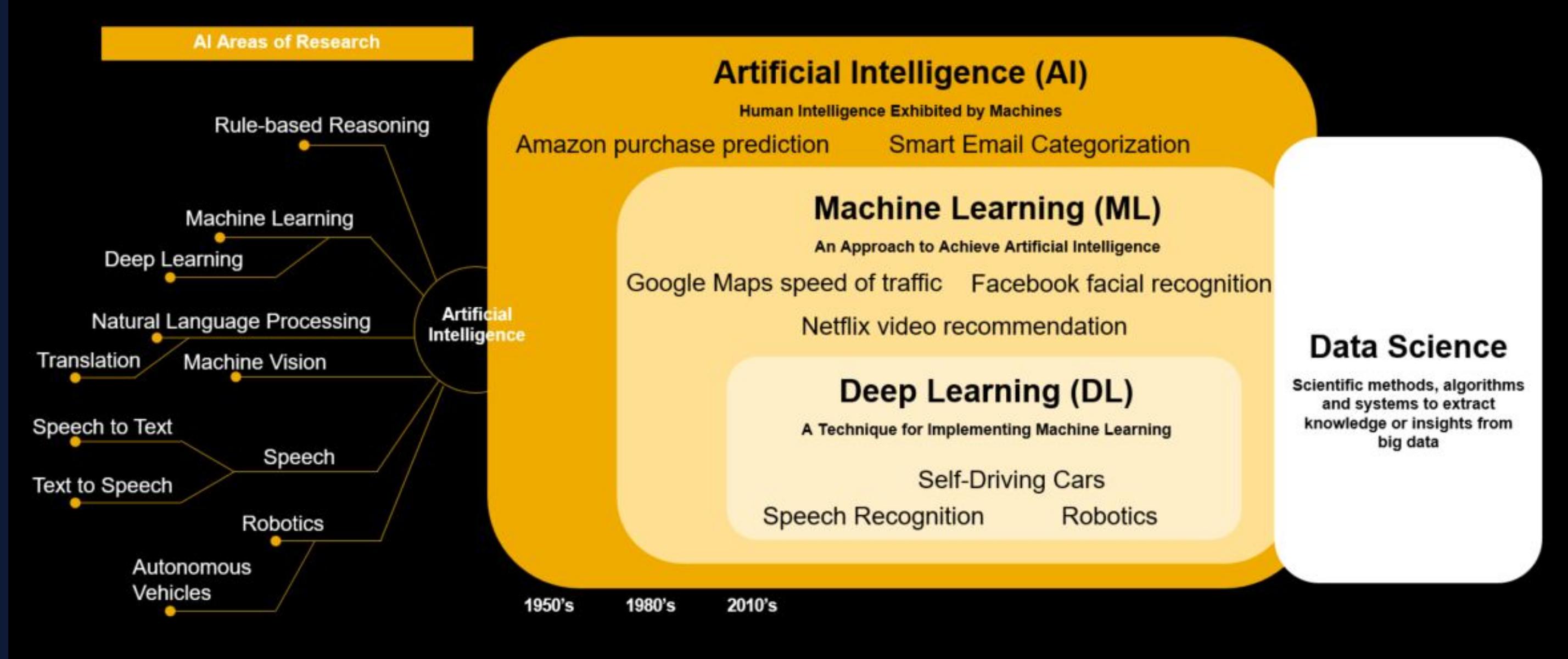
Big Data vs Data Science vs Data Analytics



Remember this..



What is Data Science, ML, DL, AI??





Our Goal

What do we learn here?

Python & Maths

- In a data science course, mathematics forms the foundation for understanding statistical concepts, linear algebra, calculus, and probability theory. Python, a versatile programming language, serves as a practical tool for data manipulation, visualization, and machine learning. Together, these pillars equip students with essential skills for data analysis and modeling..

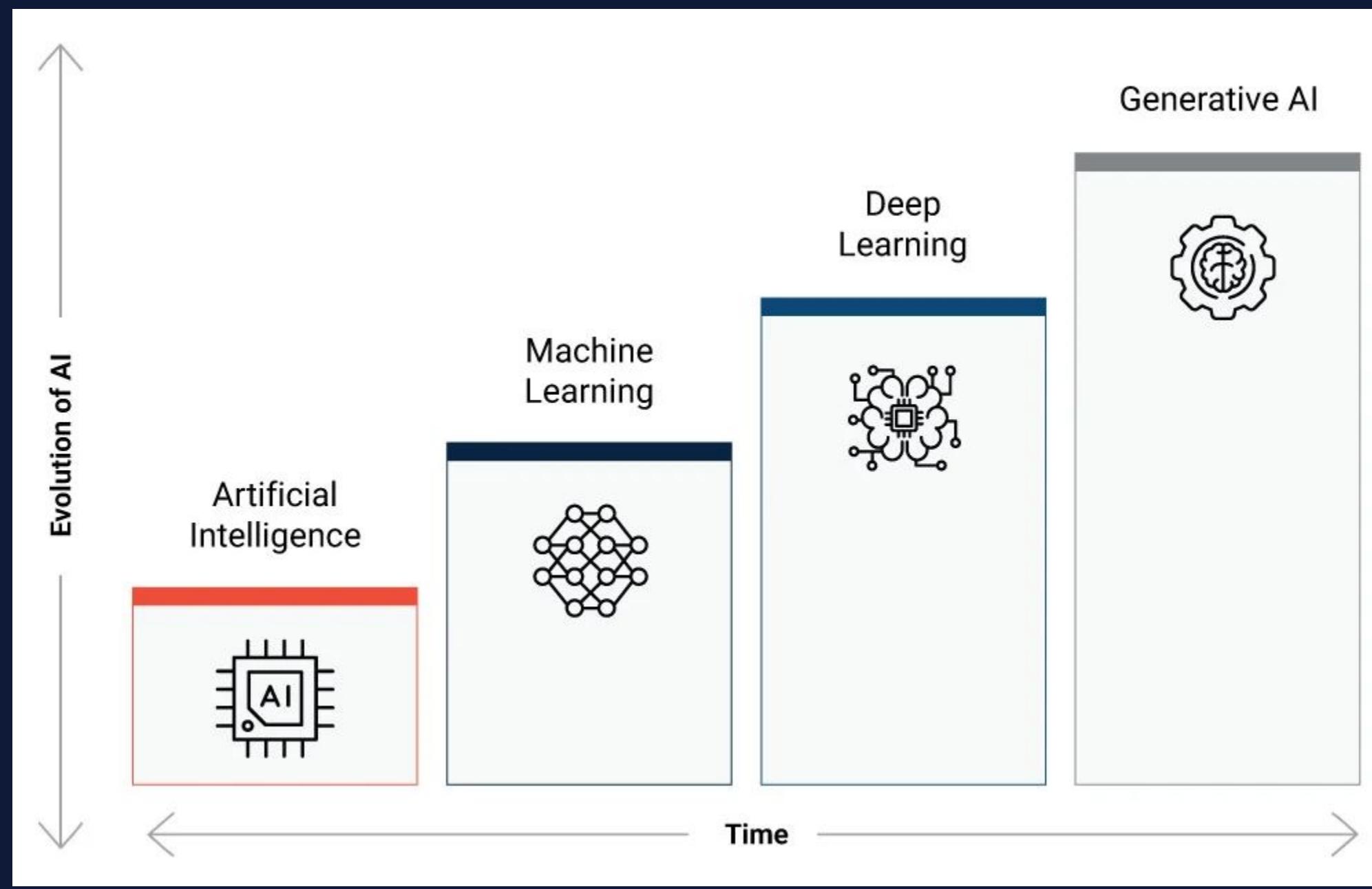
Traditional ML

- Traditional machine learning (ML) is crucial in a data science course as it provides a fundamental understanding of algorithms like regression, decision trees, and clustering. This knowledge is essential for data preprocessing, feature selection, and model building, offering a strong basis for more advanced techniques in the field.

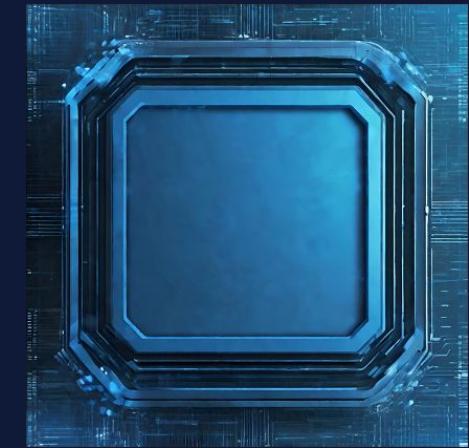
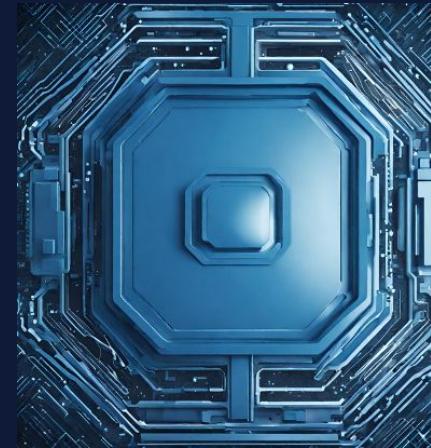
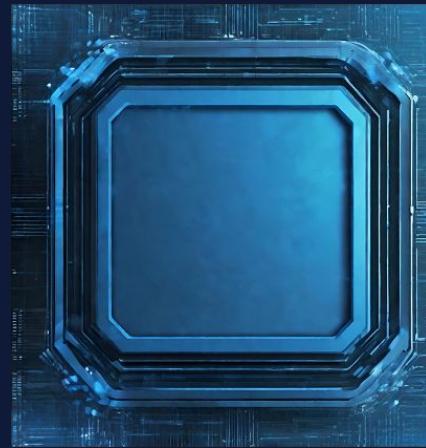
Deep Learning

- Deep learning is vital in a data science course as it explores neural networks to tackle complex tasks like image and speech recognition. Understanding deep learning empowers data scientists to work with cutting-edge AI applications, enhancing their ability to solve intricate problems and make predictions in diverse domains.

Technology vs Difficulty



The Demo Video



LLM

Generates Contents to
Speak based on
prompts

TTS

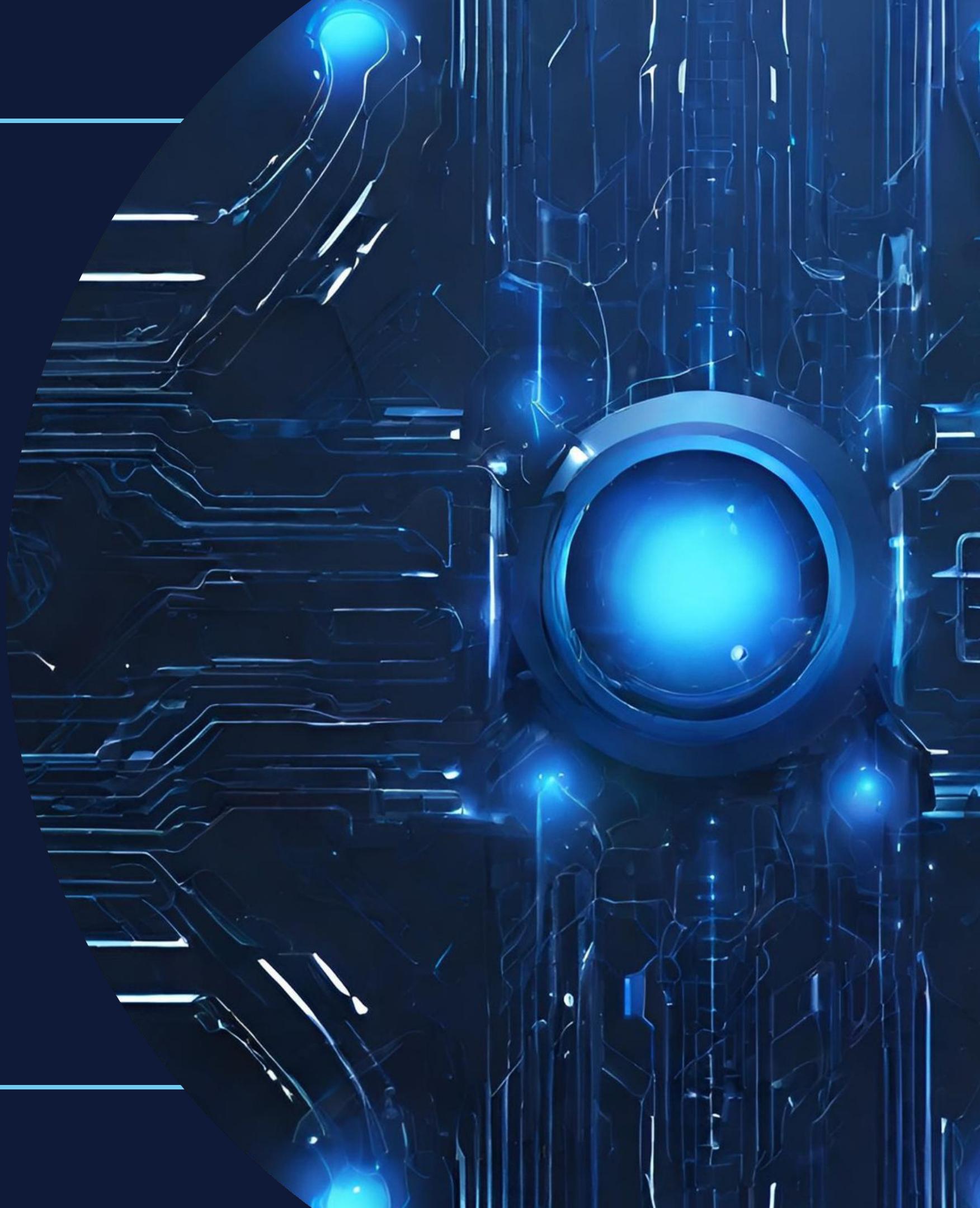
Text-to-Speech (TTS):
Converts text into
spoken audio for human
comprehension.

3D Generation

3D Neural Generation
for frame by frame pose
generation

i

Learning



Types of Learning

Supervised

Labelled Data
Predict the future outcome

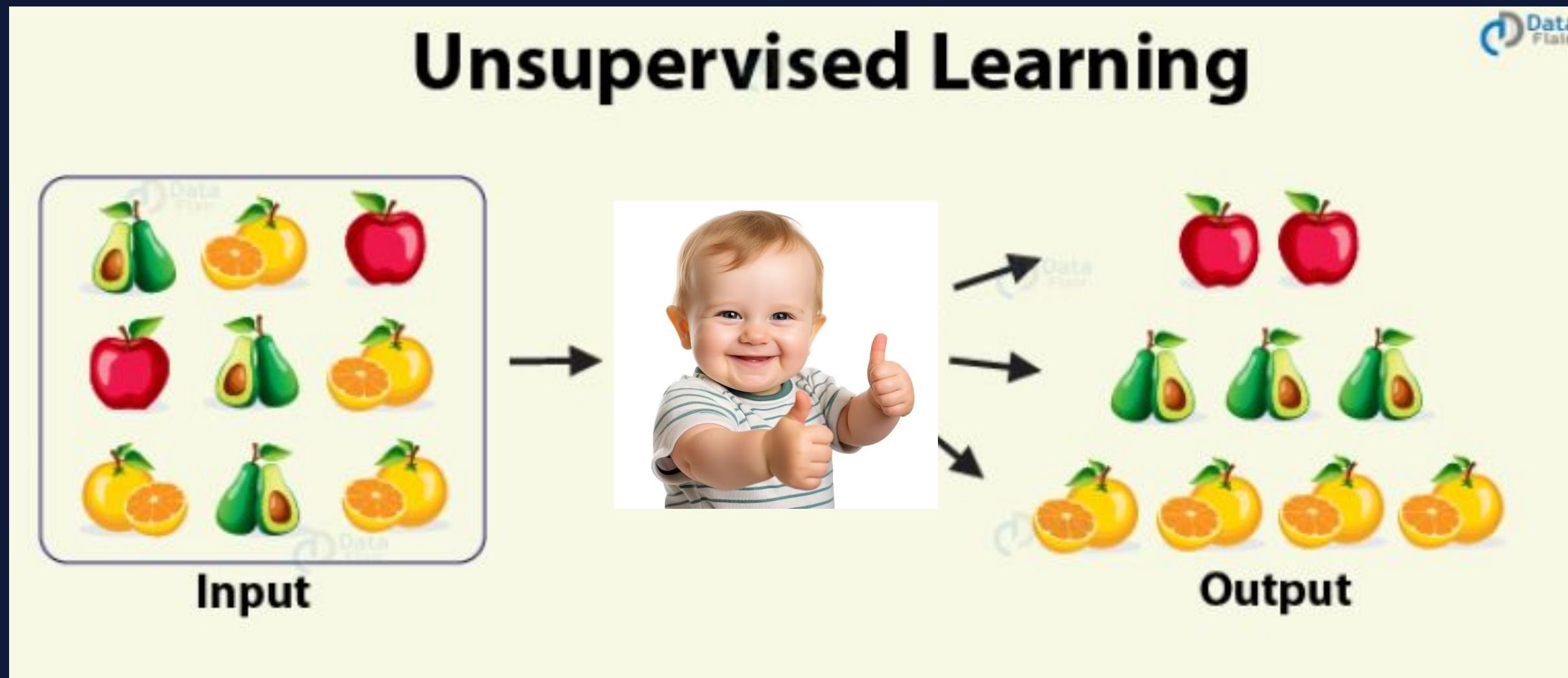
Unsupervised

No Labels
Find hidden structure

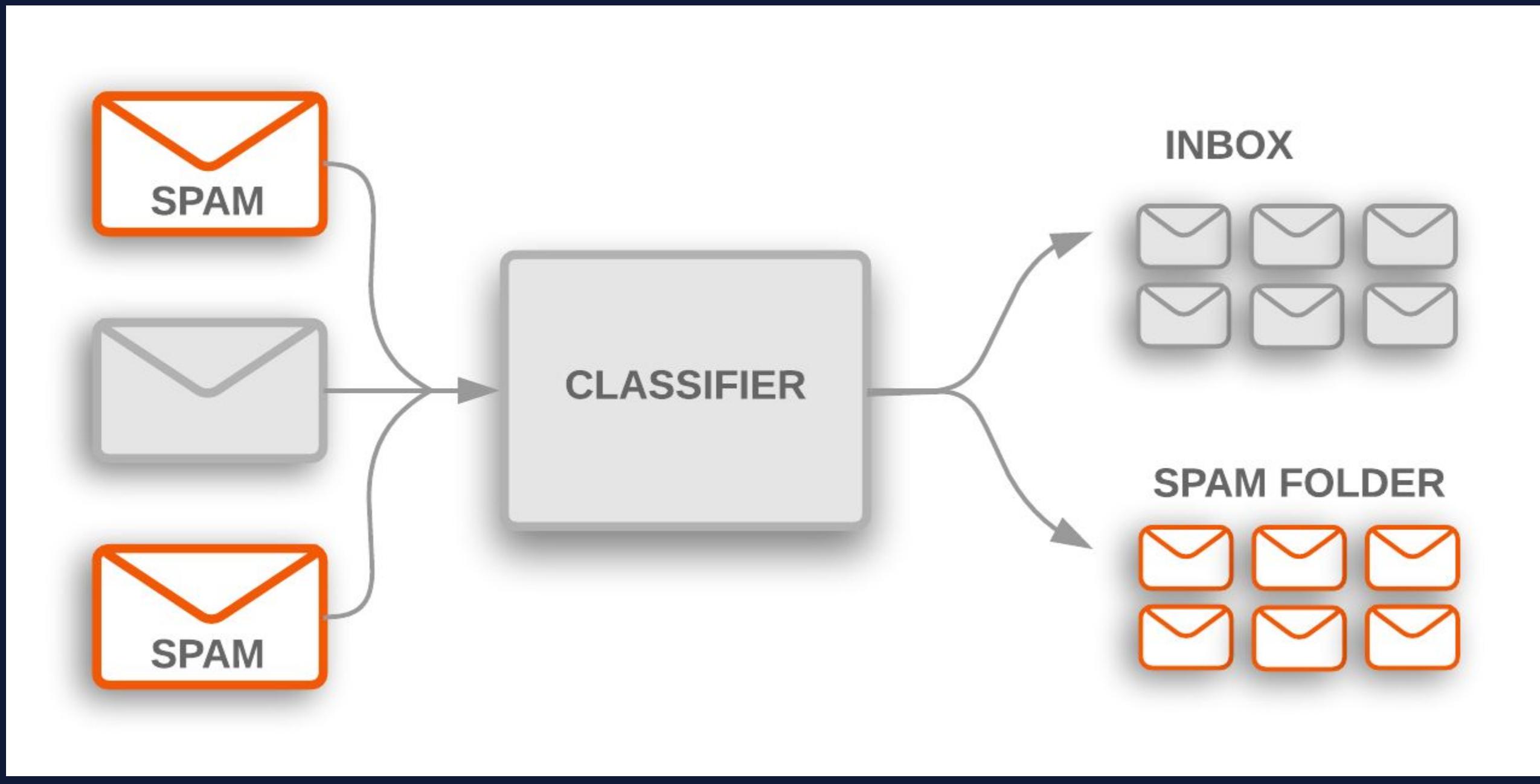
Reinforcement

Learn from series of action
Decision process

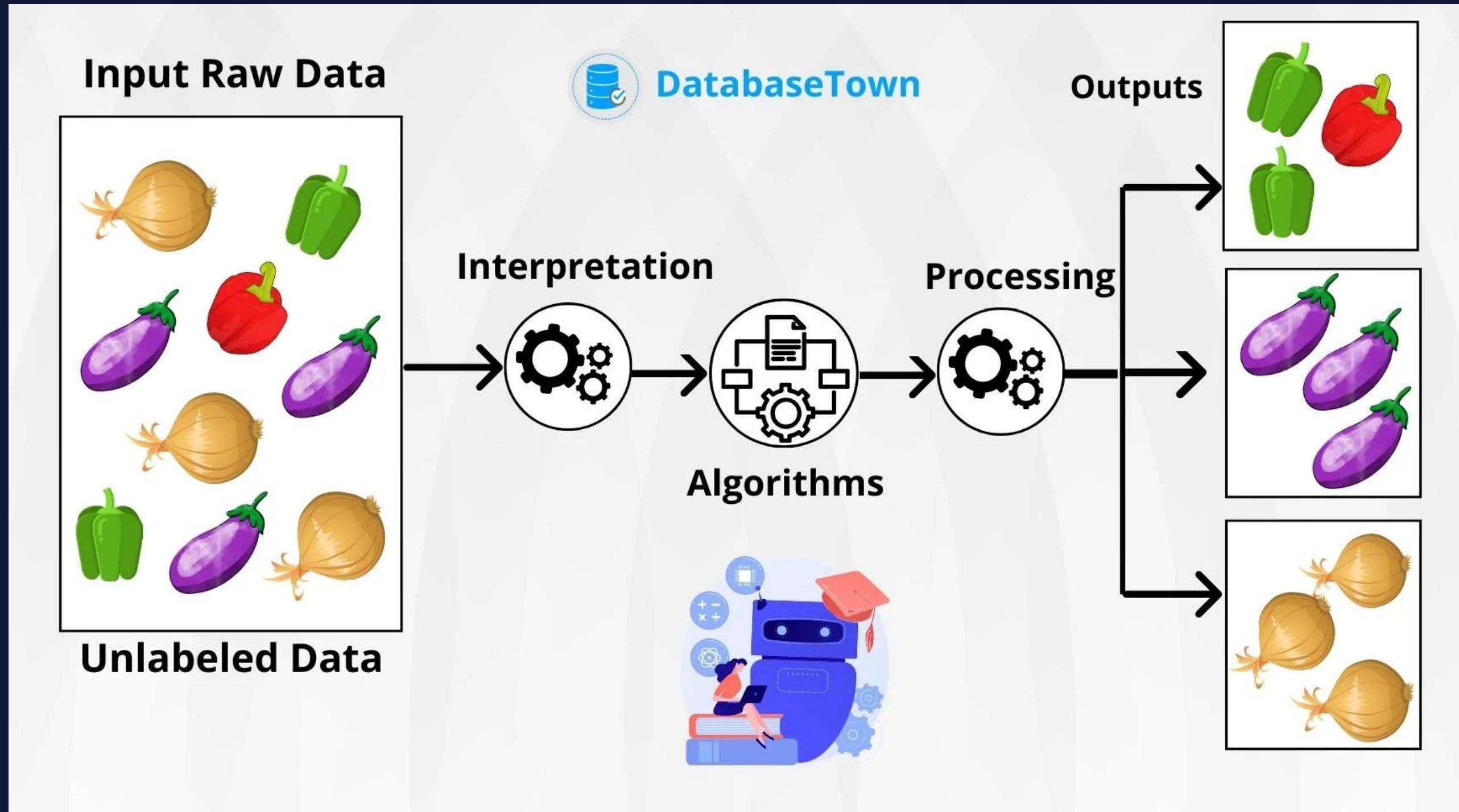
Supervised Learning



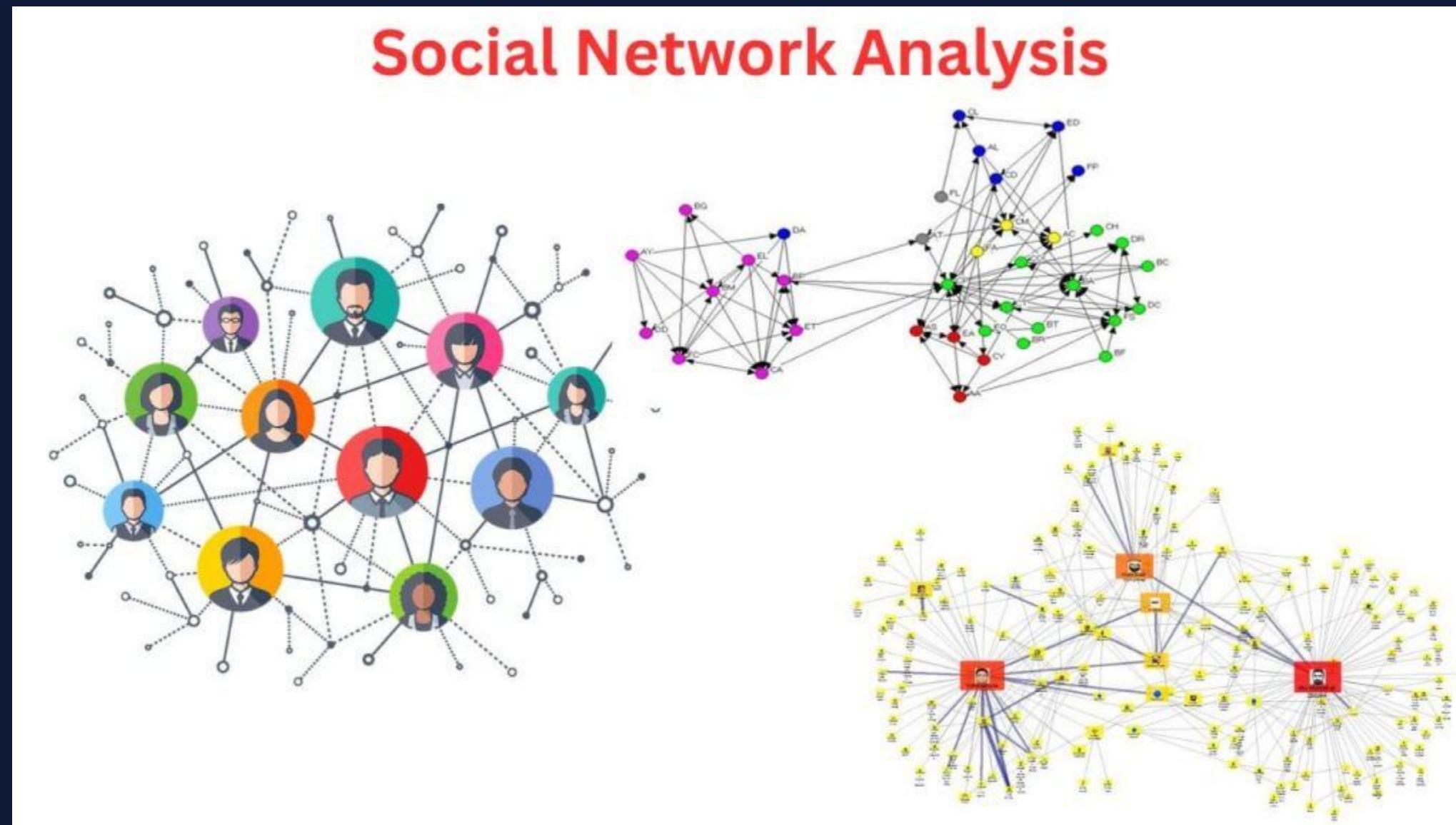
Examples of Supervised Learning



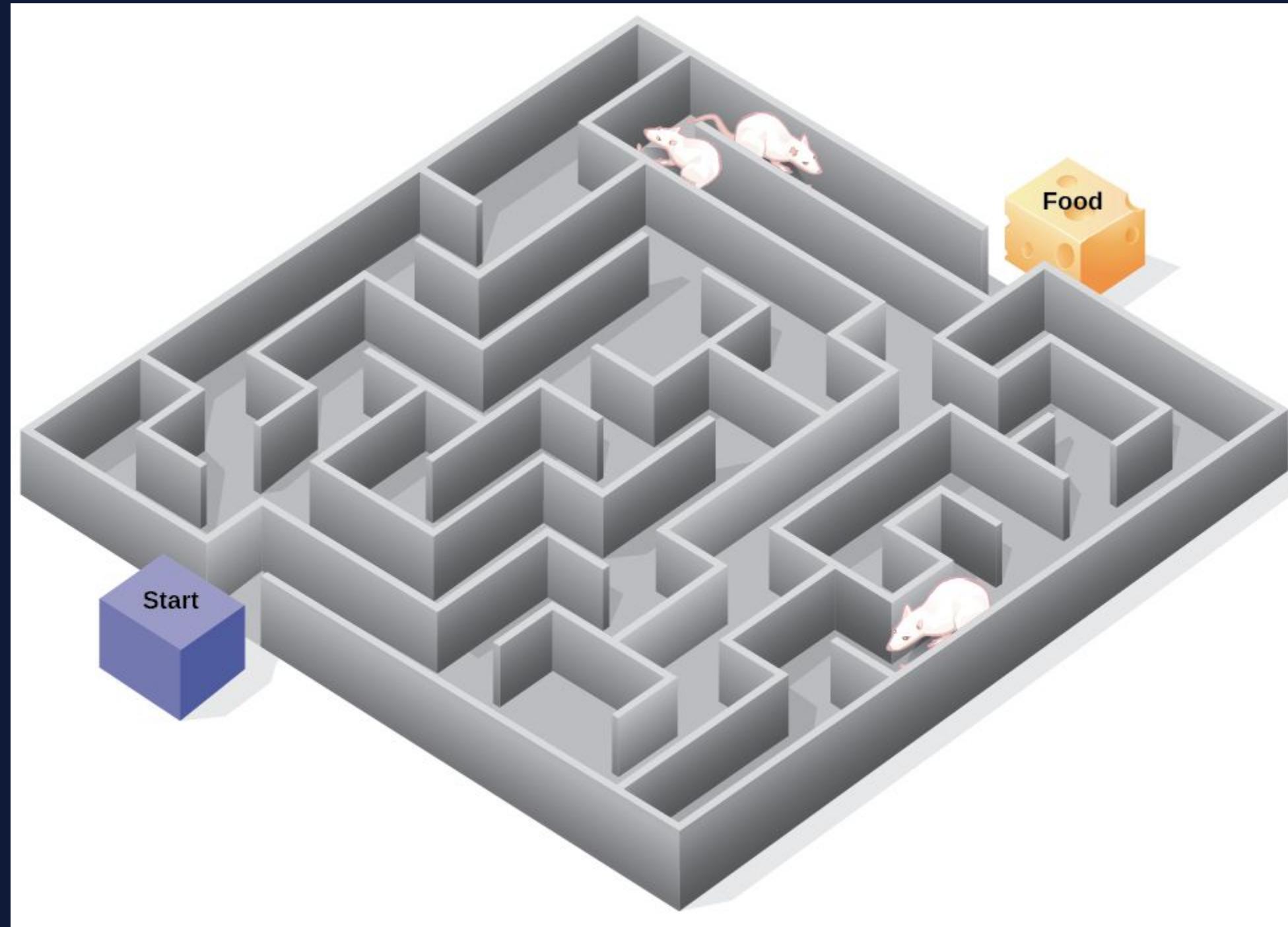
Unsupervised learning



Unsupervised Learning Example



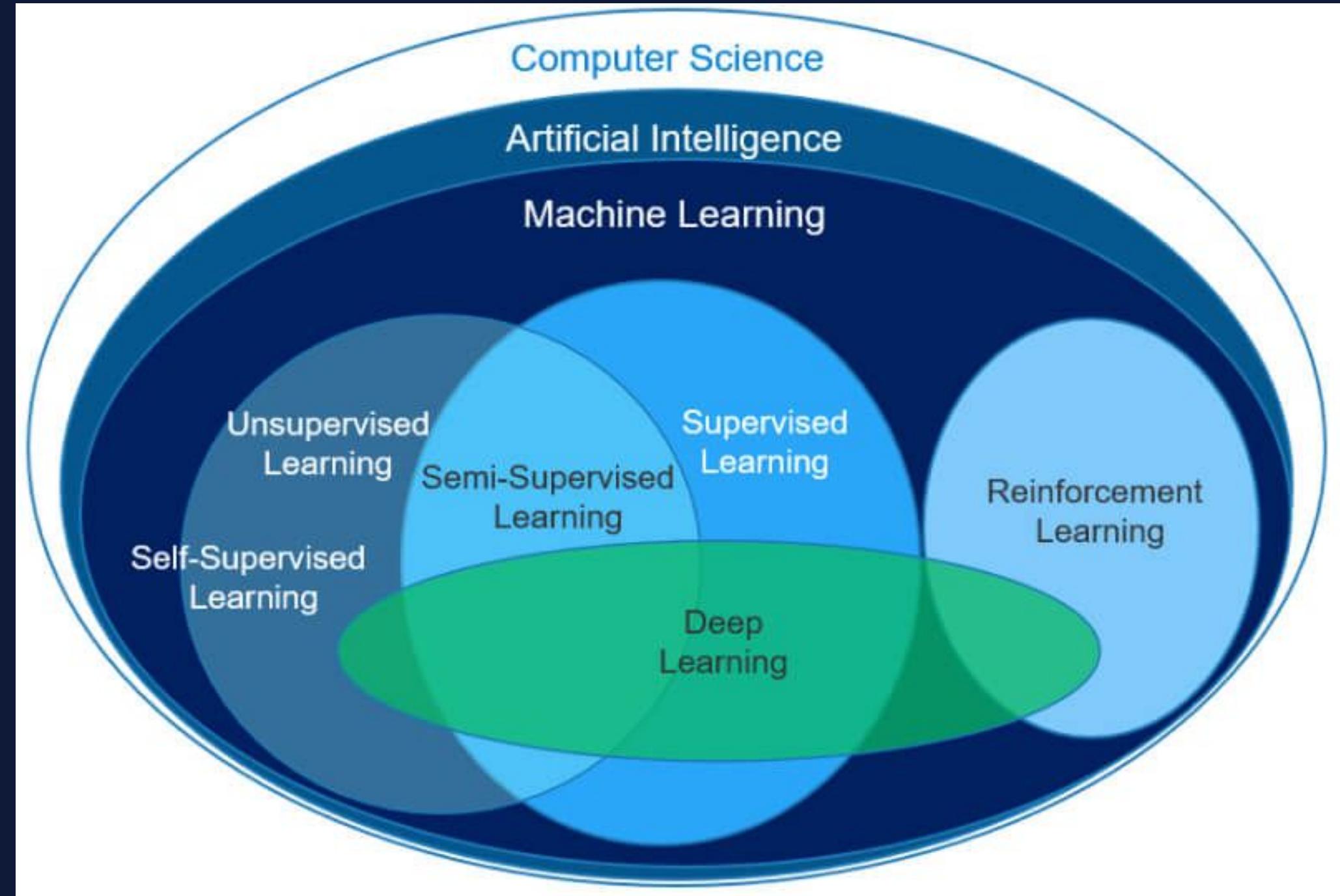
Reinforcement Learning



RL real life example

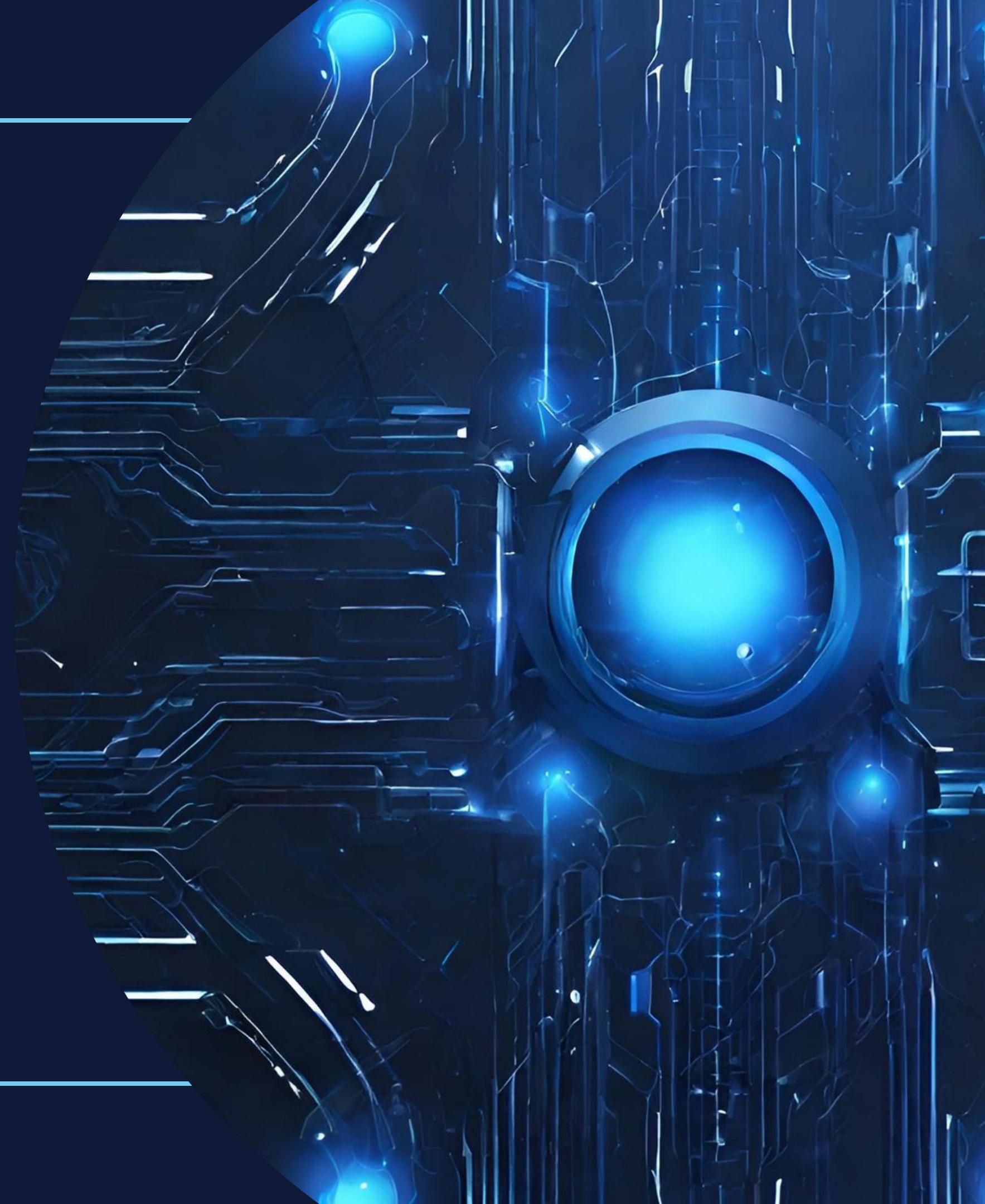


Summary





Python



Why Python



1. Simple and Easy to use

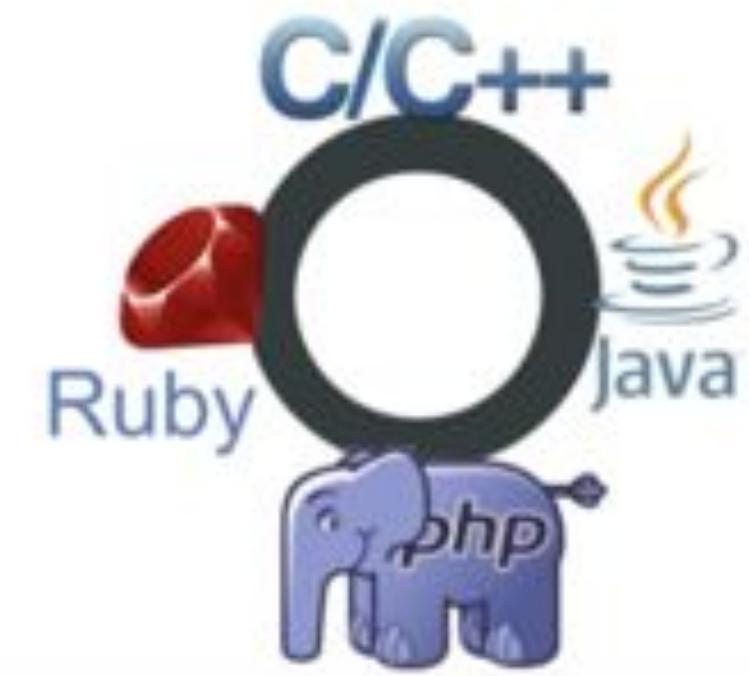
Java

```
public class HelloWorld {  
    public static void main(String[] args) {  
        System.out.println("Hello, world");  
    }  
}
```

Python

```
print("Hello, world")
```

It's that **SIMPLE!**



Programmer

PROGRAMMING



Non Programmer



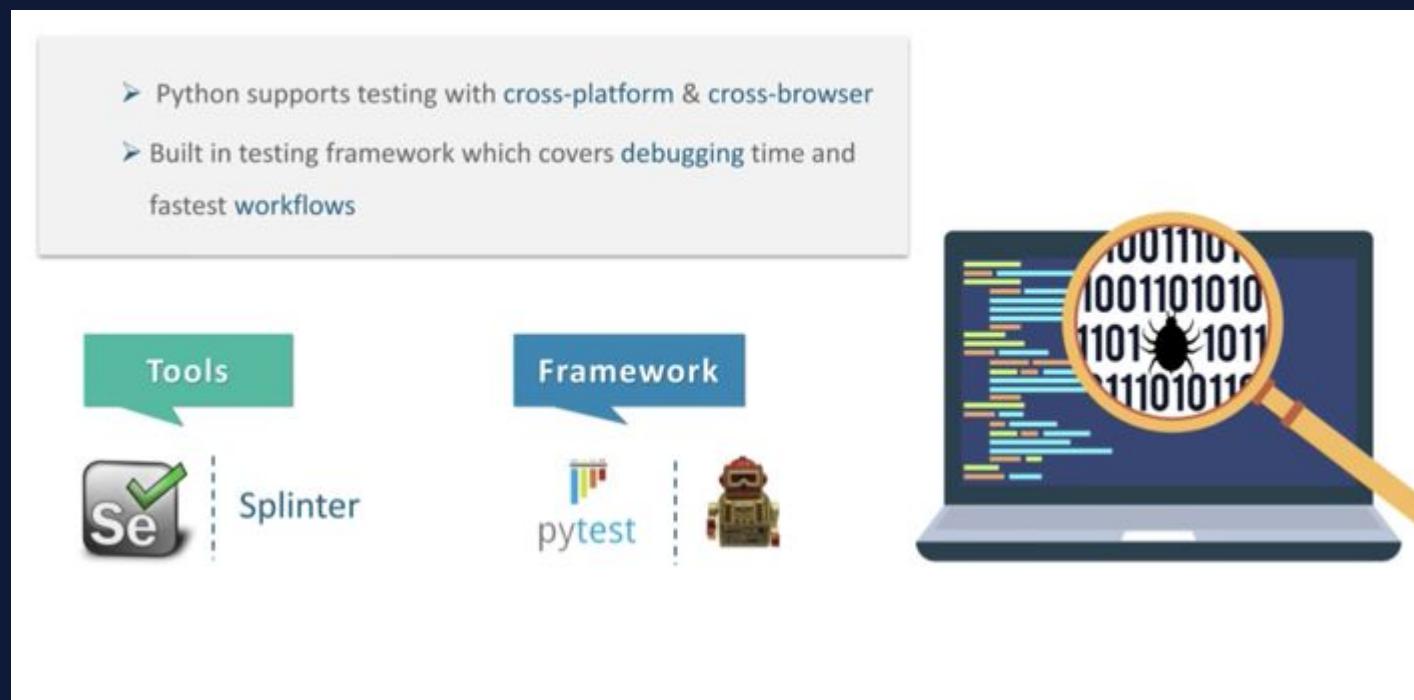
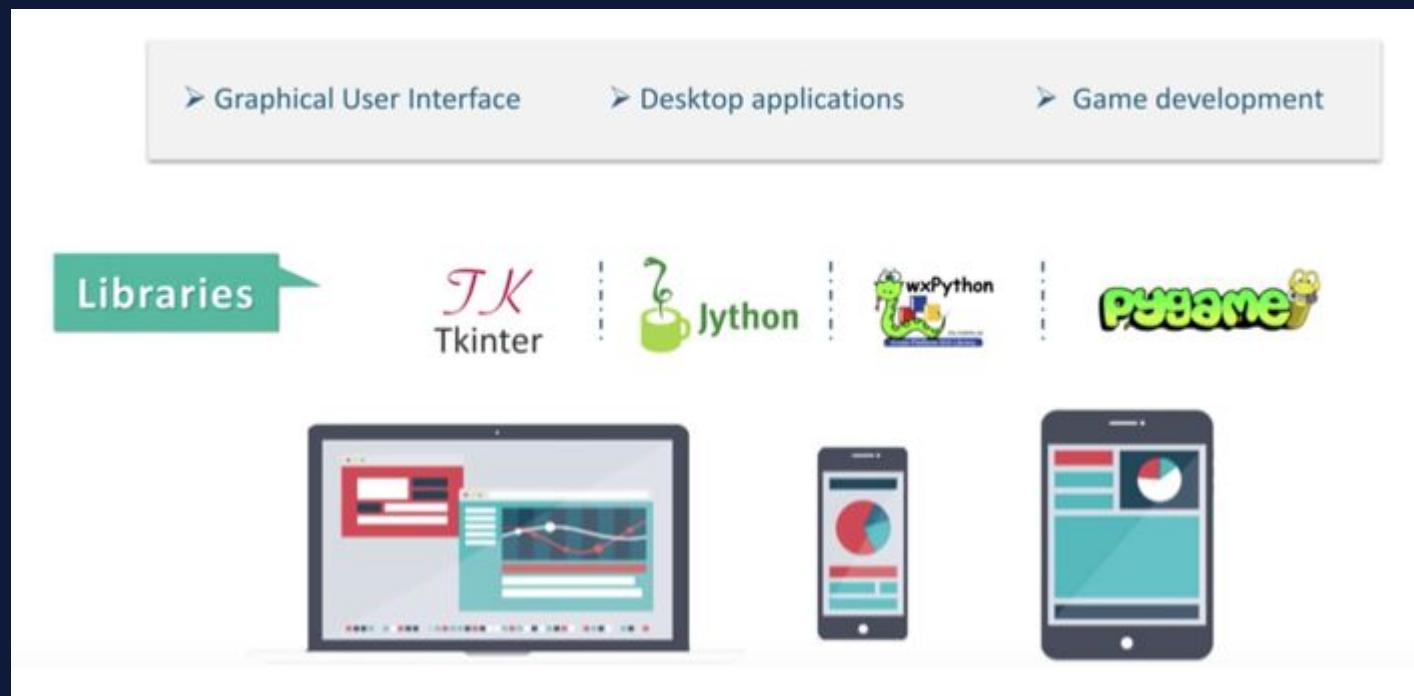
2. AI Resources

Libraries

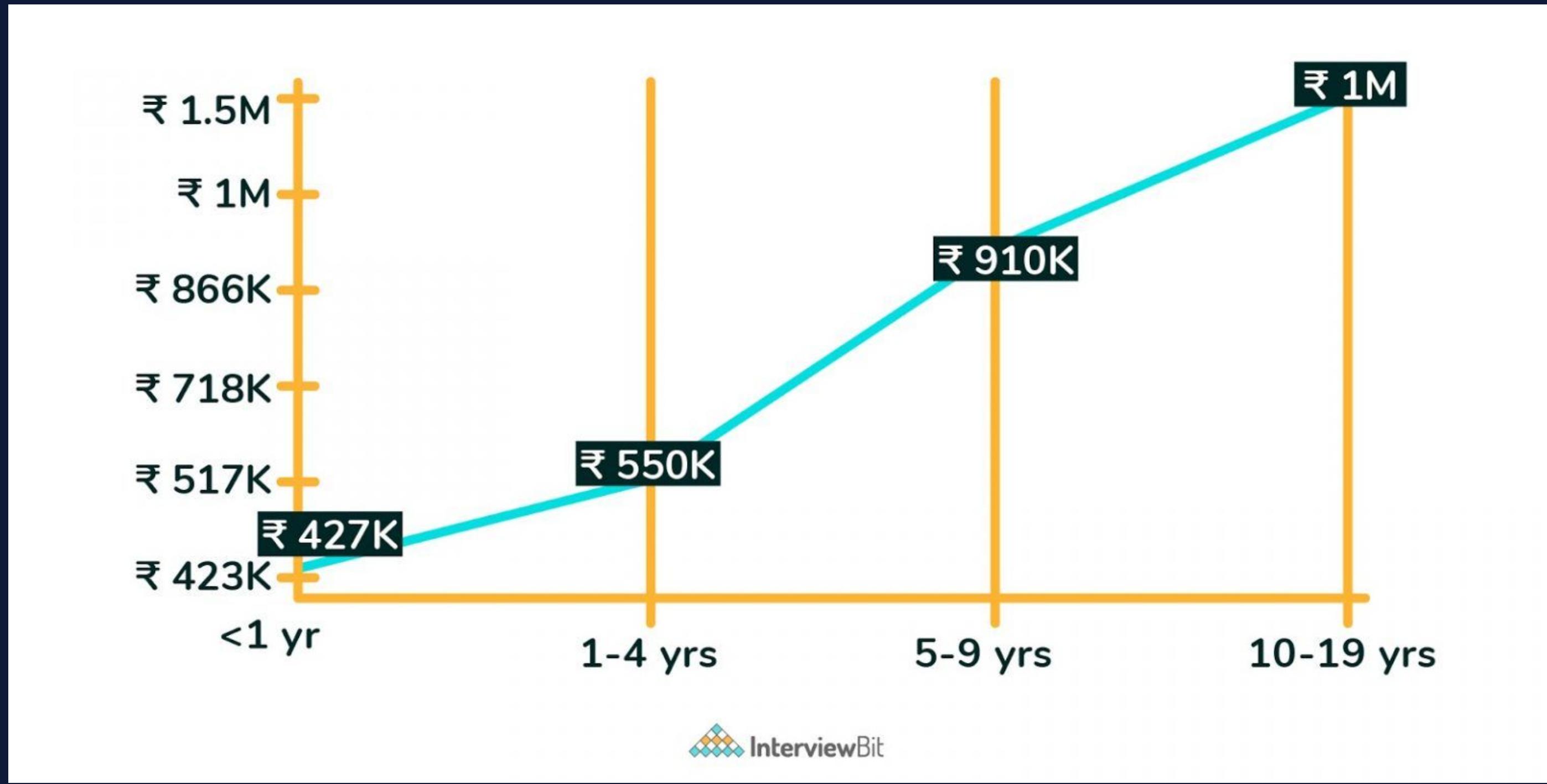
- Scikit-learn
- Keras
- Tensorflow
- Opencv

A robotic arm is shown interacting with a network of blue circular icons connected by lines, forming a web. The icons represent various AI applications and technologies, including a globe, a gear, a person, a factory, a truck, a map, a robot arm, a Wi-Fi signal, and a bar chart. The background is a blurred industrial or laboratory setting.

3. Multipurpose Usage



4. Highly Paid



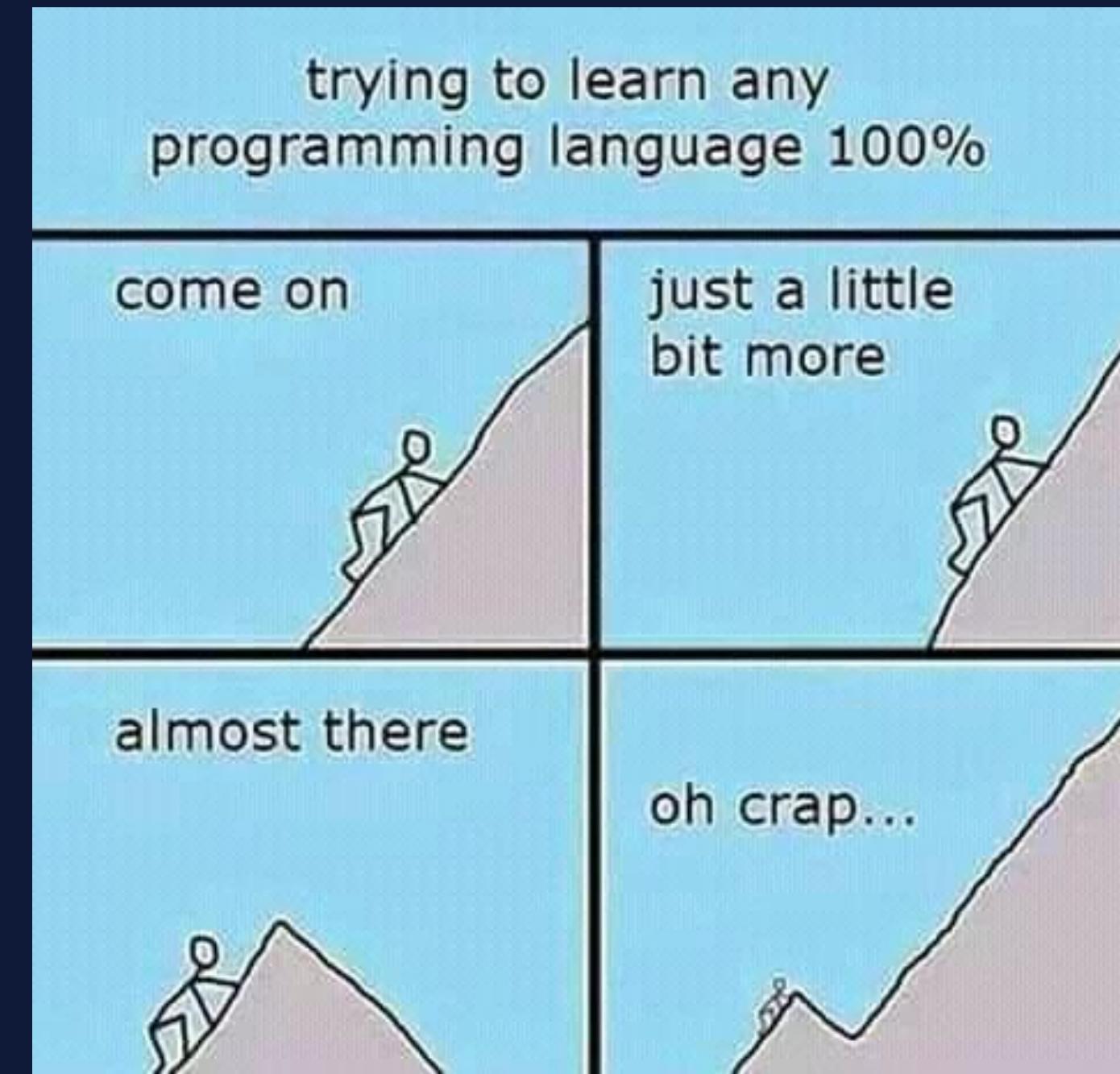
Final Notes



LET'S LEARN, UNLEARN AND
RE-LEARN

Final Notes

LET'S MAKE LEARNING A HABIT

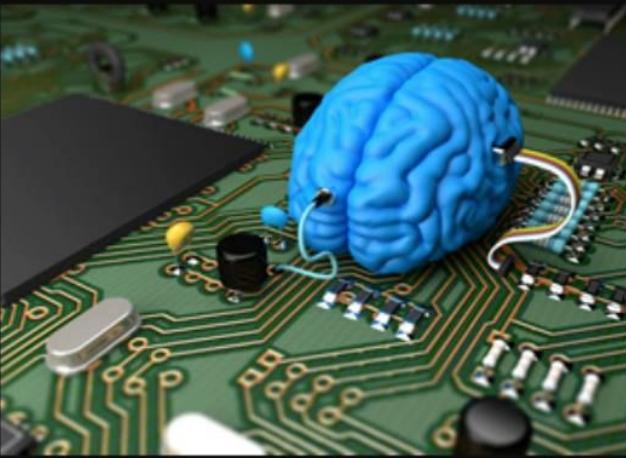


Final Notes

Deep Learning



What society thinks I do



What my friends think I do



What other computer
scientists think I do



What mathematicians think I do

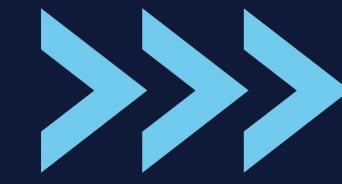


What I think I do

import keras

What I actually do

LETS STAY OPEN-MINDED;
STAY FOCUSED



Thank you!

Connect:

ph: 9543853644

Linkedin: <https://www.linkedin.com/in/laxminarayen-n-v-a07b9b157/>

