What is Artificial Intelligence

→ Artificial Intelligence refers to intelligence displayed by machines that simulates human and animal intelligence.



Self-driving cars



Google's AlphaGo



Siri(iPhone)





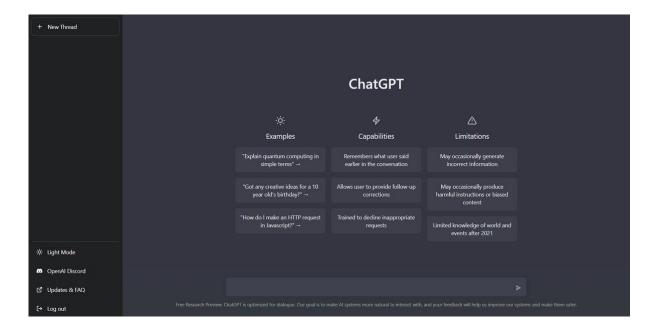
Chess



Concierge robot from IBM Watson

What is Artificial Intelligence

OpenAI



Data Facilitates in Recommendations

Amazon collects data from users and recommends the best products according to the user's buying/shopping pattern.



Added to Cart

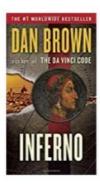
Cart subtotal (1 item): \$17.96

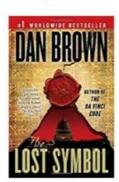
To qualify for FREE Shipping, add \$7.04 of eligible items. Details

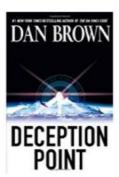
Cart

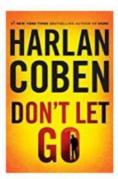
Proceed to checkout (1 item)

Customers who bought Origin: A Novel also bought



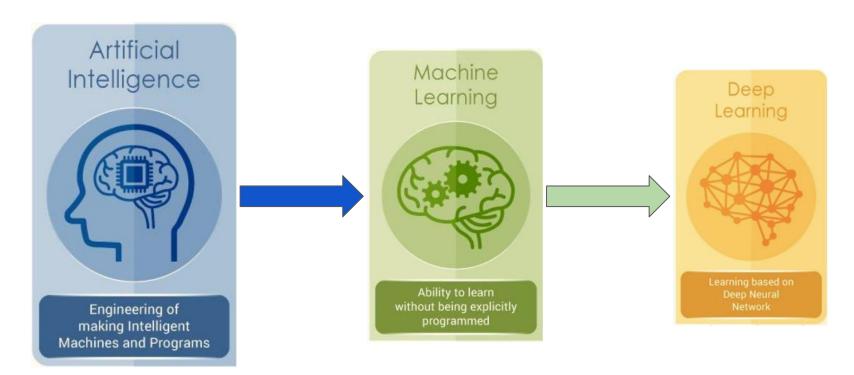






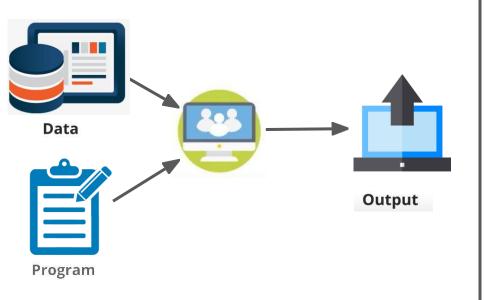
Artificial Intelligence

→ The capability of Artificial Intelligence systems to learn by extracting patterns from data is known as Machine Learning.



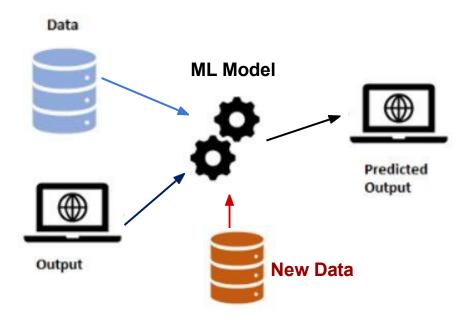
Traditional Programming

Traditional Programming: You code the behavior of the program

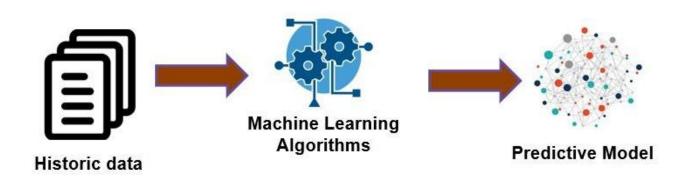


Machine Learning

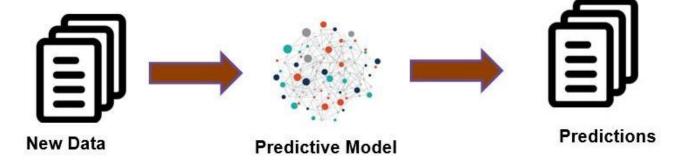
Machine Learning: You leave a lot of that to the machine to learn from data



Machine Learning Predictive Model



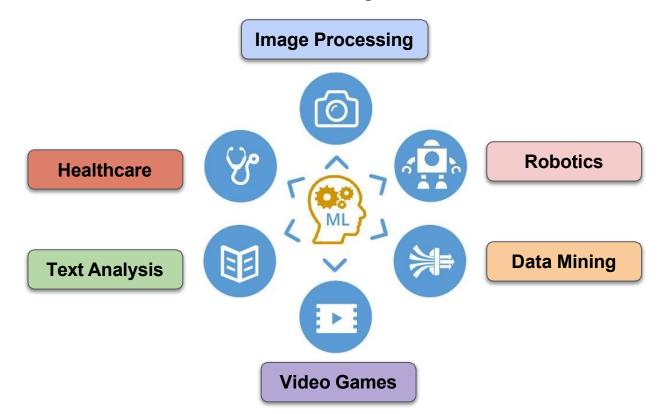
Model training



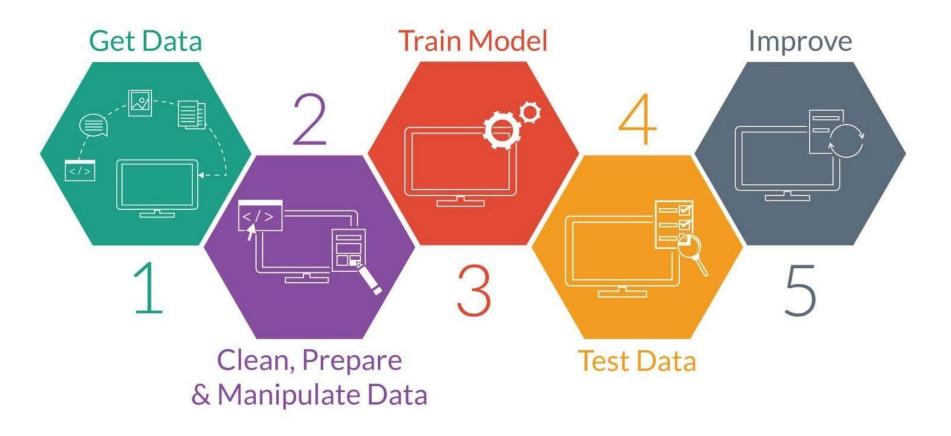
Scoring

Applications of Machine Learning

→ The capability of Artificial Intelligence systems to learn by extracting patterns from data is known as Machine Learning.



Machine Learning Cycle:



Steps in Machine Learning



1. Data Gathering



2. Data Cleaning



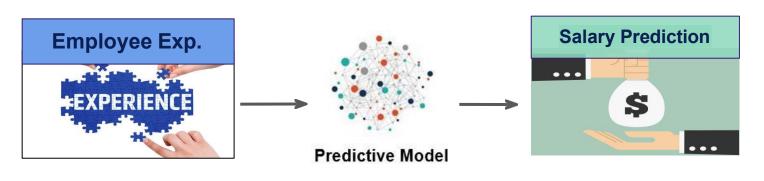
3. Data Visualization

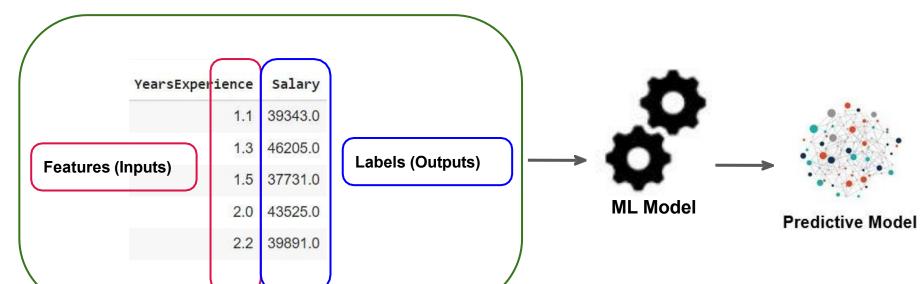


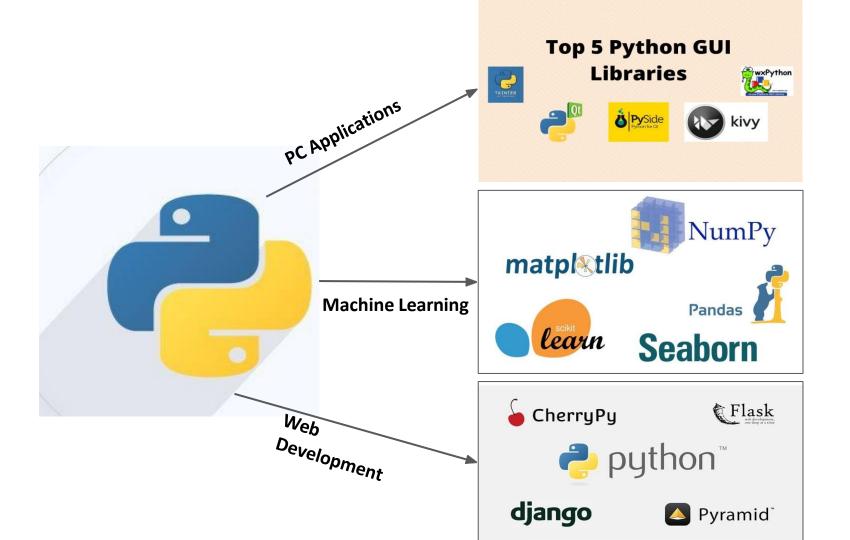
5. Training & Testing



4. Data Processing







Python Packages









