Artificial Intelligence &

A walkthrough of Artificial Intelligence and Machine Learning Applications.

Machine Learning

Agenda

What we'll discuss today

What Artificial Intelligence and its applications?

How to approach this field for a career?

What is Artificial Intelligence?

Artificial Intelligence is a field of computer science that attempts to create machines that act rationally in response to their environment.





Artificial Intelligence

A technique that enables a computer to mimic human behavior.



Machine Learning

Ability to learn without explicitly being programmed.

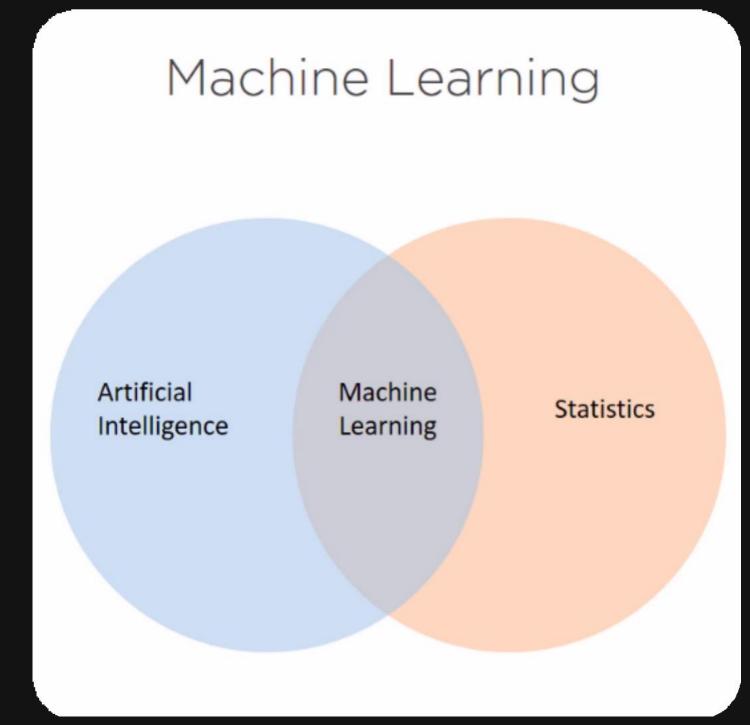
Deep Learning

Extract Pattern from Data using neural networks.



Machine Learning

Machine learning is a type of artificial intelligence where we teach machines how to solve problems without explicitly programming them to do so.



Types of Machine Learning

1

Supervised Learning



Unsupervised Learning

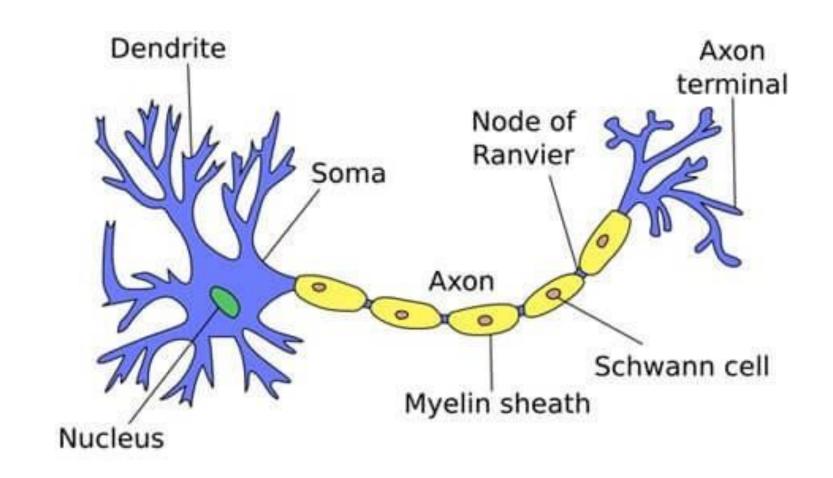


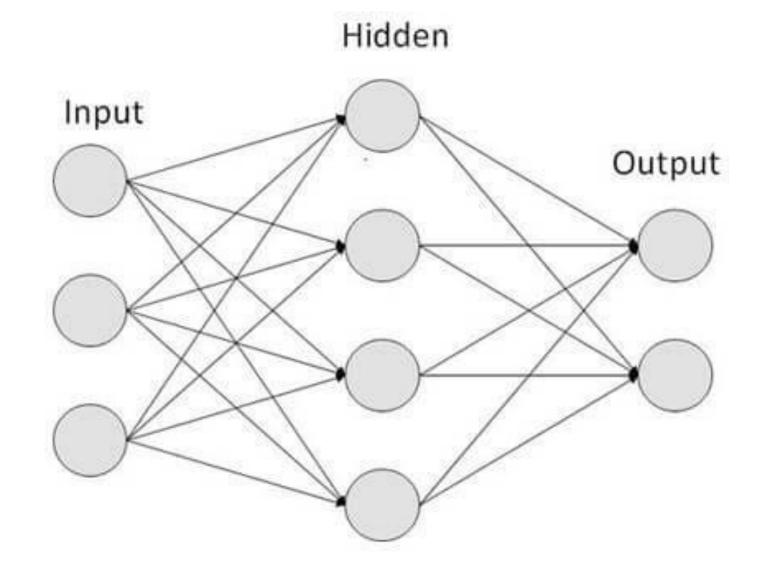
Neural Networks

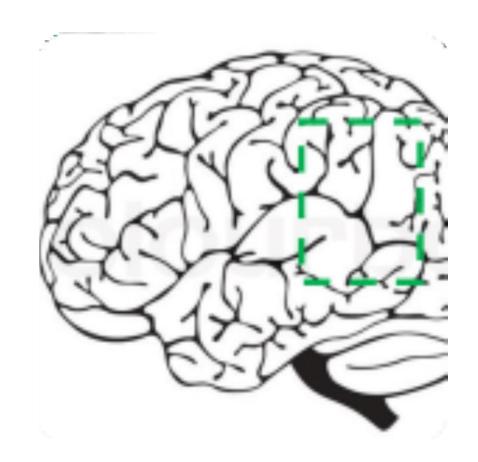
Also known as artificial neural networks (ANNs) or simulated neural networks (SNNs),

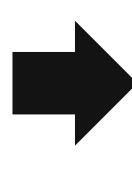
are a subset of machine learning and are at the heart of deep learning algorithms.

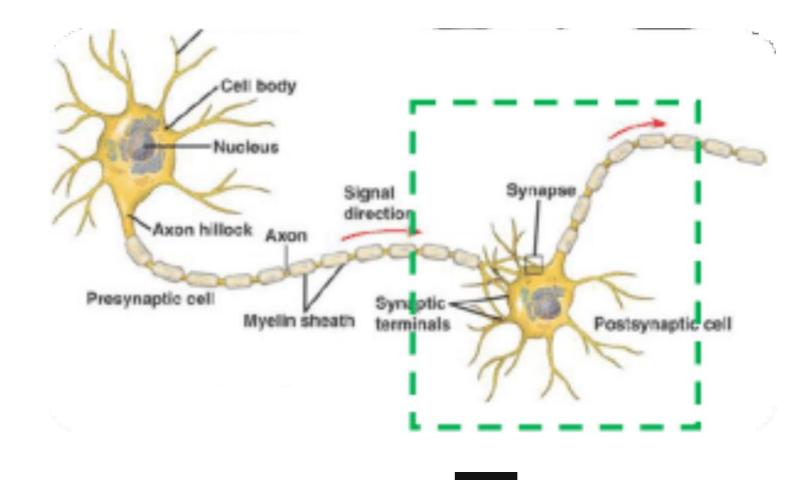
Their name and structure are inspired by the human brain, mimicking the way that biological neurons signal to one another.



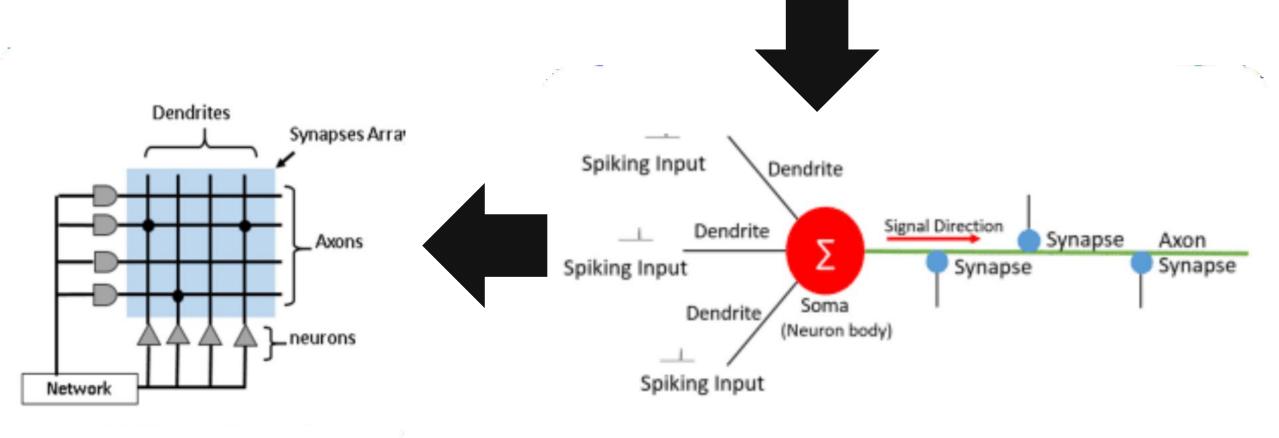


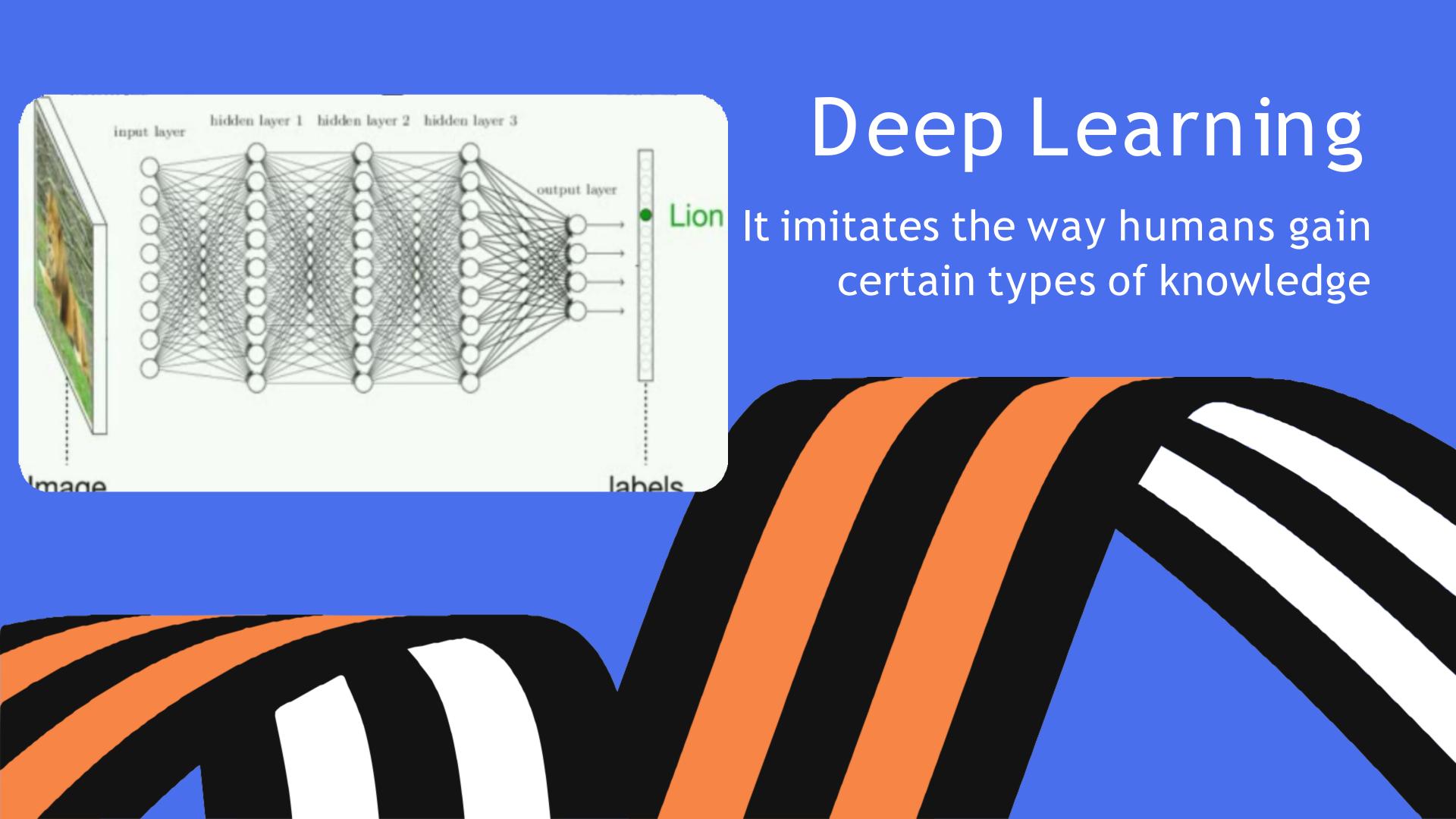




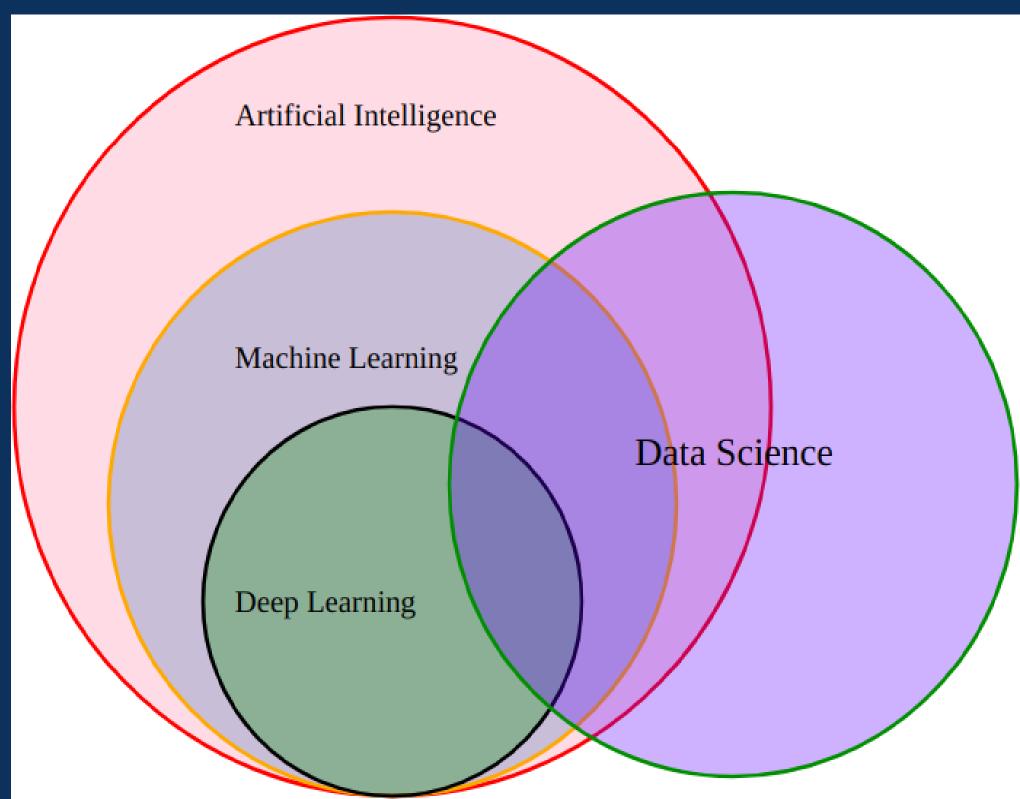


Neural Network Flow





Understanding Through Venn Diagram



Applications of Artificial Intelligence

01

02

This Person does not exist

Digital Einstein

https://this-person-does-not-exist.com/en

https://digitalhumans.com/digital-einstein/

https://www.youtube.com/watch?v=RiWB2o9qMs&t=13s

What doesa Tesla Car See



Applications of

Artificial Intelligence

With Live Games



Akinator

https://en.akinator.com/game

o2 For NLP

https://research.google.com/semantri
s/

Applications of

03

Quick Draw by Google

https://quickdraw.withgoogle.com/

Artificial Intelligence

04

Talk to books

With Live Games

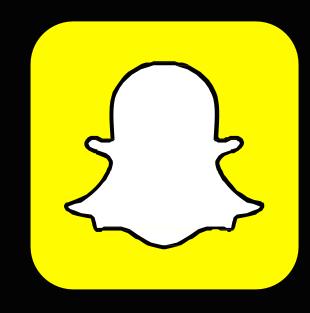
https://books.google.com/

Who is using this technology?

Well-known platforms use AI, you also encountered these features.







Social Networks

Real-time AI applications



Pinterest uses computer vision automatically identify objects in images (or "pins")



Instagram uses machine learning to identify the contextual meaning of emoji.

https://in.pinterest.com/pin/68982 4867919734200/ which have been steadily replacing slang (for instance, a laughing emoji could replace "lol")



Snapchat

This technology is powered by the 2015 acquisition of Looksery, a Ukrainian company with patents on using machine learning to track movements in the video.











Different Profiles to work in the field of Artificial Intelligence

- Machine Learning Engineer
- Deep Learning Engineer
- NLP Engineer
- Computer Vision Engineer
- Data Scientist
- Data Engineer
- Data Visualization Expert
- ML Ops Engineer
- Data Architect
- And many more

Thank You