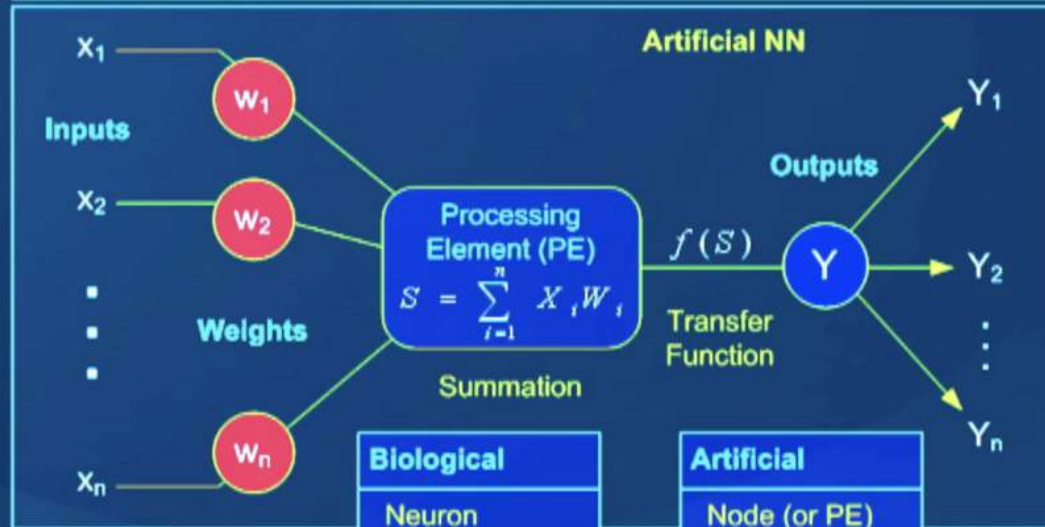
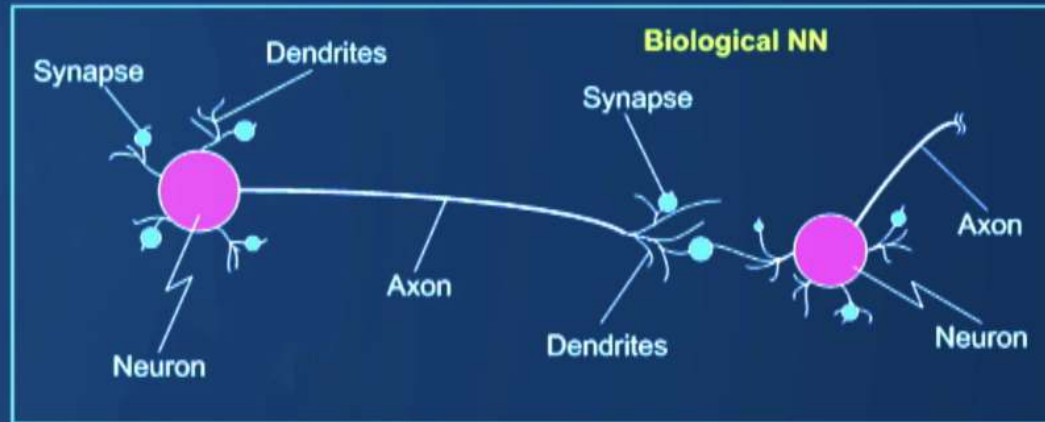




DEEP LEARNING - HOW IT IS DIFFERENT

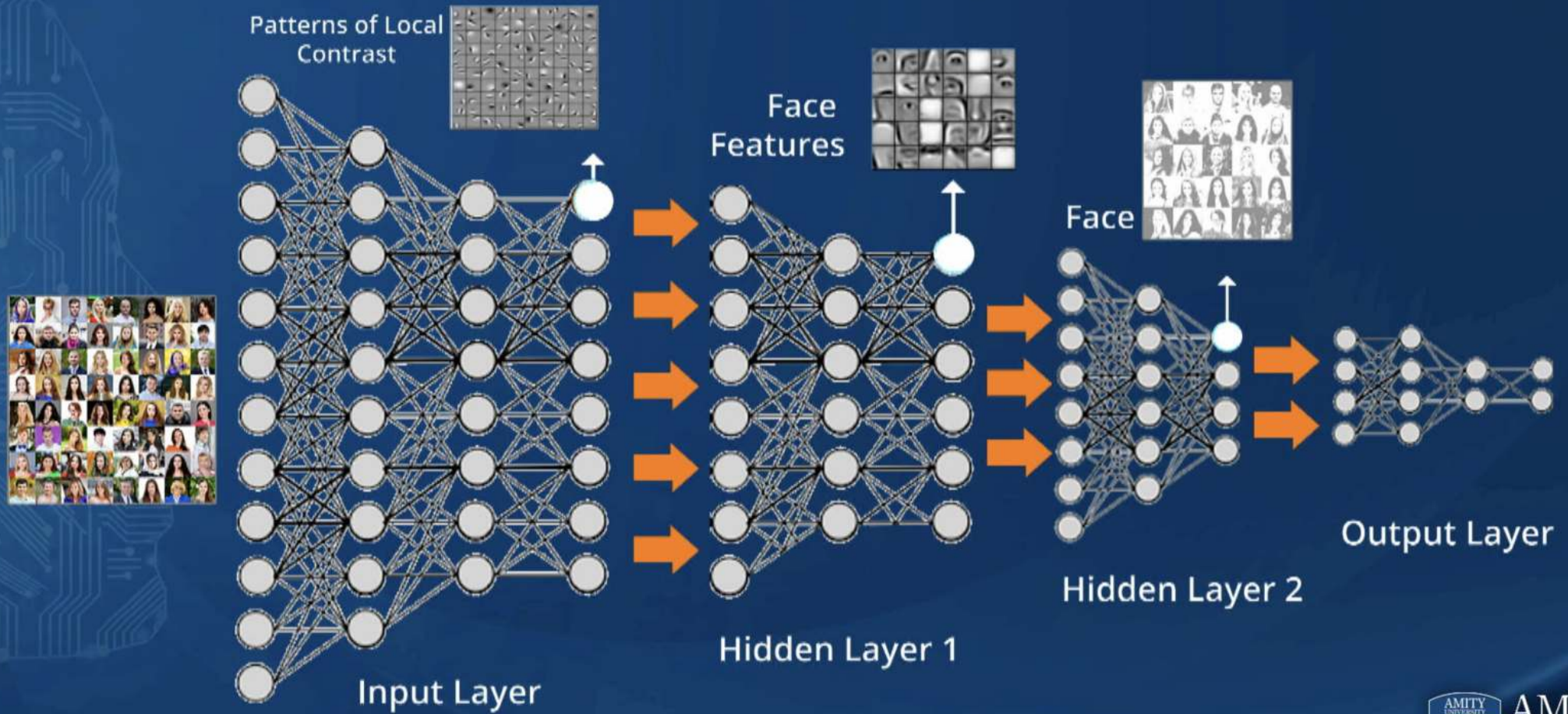
DEEP LEARNING

- **Deep Learning is name given to Artificial Neural Network (ANN).**
- **ANN simulates the structure and working of a human brain.**
- **A human brain contains numerous brain cells called neurons.**
- **Each neuron is performing a particular task.**
- **Every neuron is interconnected with each other to exchange the information.**
- **There are layers of Neurons – stacked neurons.**
- **Similarly, in ANN, each node is connected to every other node at each layer and each node is doing particular processing.**



Biological	Artificial
Neuron	Node (or PE)
Dendrites	Input
Axon	Output
Synapse	Weight
Slow	Fast
Many (10^9)	Few (10^2)

DEEP LEARNING – LAYERS OF NODES



MACHINE LEARNING

DEEP LEARNING

Optimal data volumes

Thousands of data points

Big data: millions of data points

Outputs

Numerical value, like classification or score

Anything from numerical values to free-form elements, such as free text and sounds

How it works

Uses various types of automated algorithms that learn to model functions and predict future actions from data

Uses neural networks that pass data through many processing layers to interpret data features and relations

How it's managed

Algorithms are detected by data analysts to examine specific variables in data sets

Algorithms are largely self-directed on data analysis once they're put into prediction

ARTIFICIAL INTELLIGENCE

MACHINE LEARNING

DEEP LEARNING

The subset of machine learning composed of algorithms that permit software to train itself to perform tasks, like speech and image recognition, by exposing multilayered neural networks to vast amounts of data.

A subset of AI that includes abstruse statistical techniques that enable machines to improve at tasks with experience. The category includes deep learning.

Any technique that enables computers to mimic human intelligence, using logic, if-then rules, decision trees, and machine learning (including deep learning).



100 STARTUPS USING ARTIFICIAL INTELLIGENCE TO TRANSFORM INDUSTRIES

CONVERSATIONAL AI/ BOTS



VISION



AUTO



ROBOTICS



CYBERSECURITY



BUSINESS INTELLIGENCE & ANALYTICS



AD, SALES, CRM



CORE AI



HEALTHCARE



TEXT ANALYSIS/ GENERATION



IOT/IIOT



COMMERCE



FINTECH & INSURANCE



OTHER



AMITY
UNIVERSITY
ONLINE

CAREERS OF TOMORROW