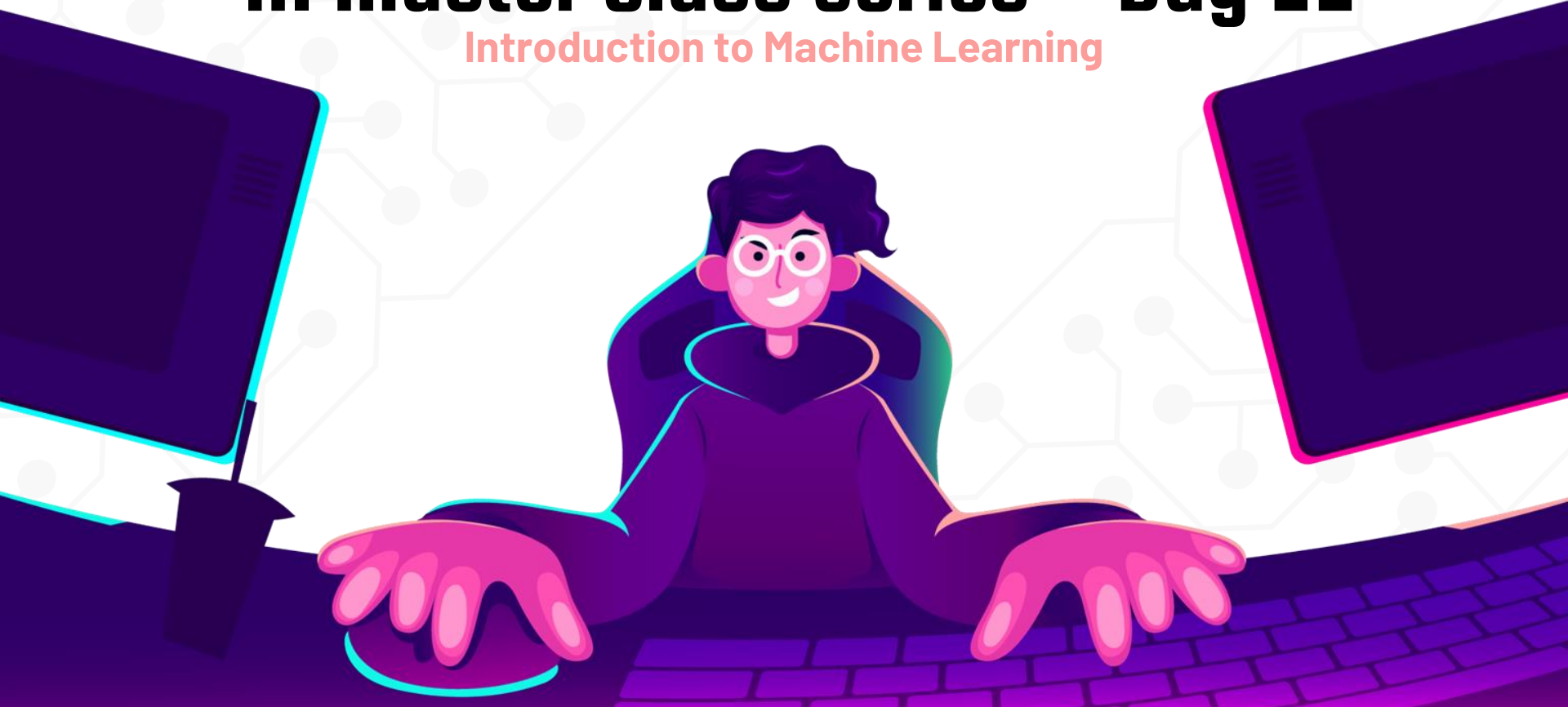




AI Master Class series – Day 22

Introduction to Machine Learning



Batch 1 & 2

**Don't Forget to attend
Today's Event on Tech
Hackathon — Chatbot &
Integrating with Telegram**



**Batch 3
Started**

Day-22 Agenda.

01.

Machine Learning

Machine Learning & Types

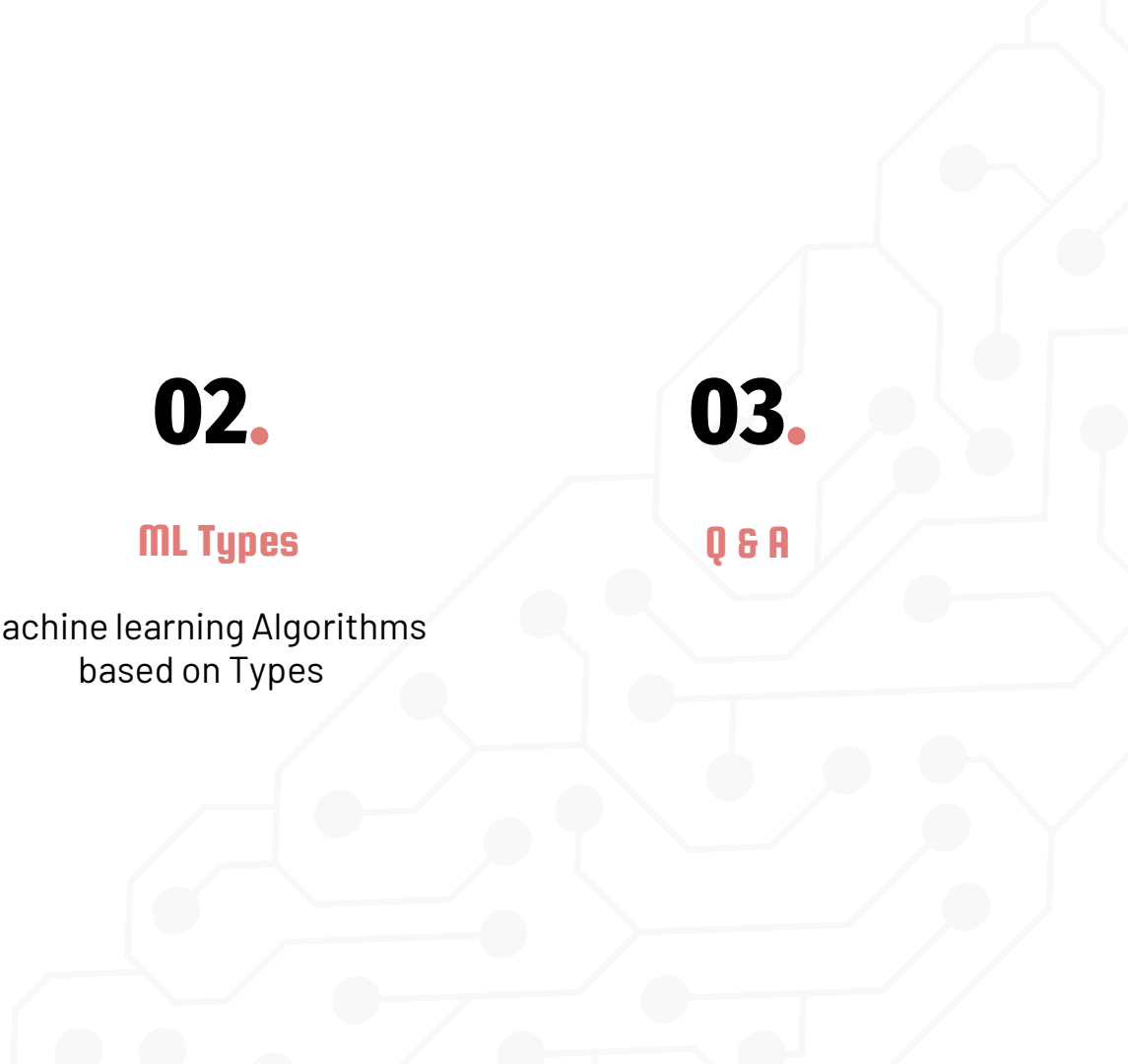
02.

ML Types

Machine learning Algorithms
based on Types

03.

Q & A



SEND VIDEO TESTIMONIAL

**Participants who sends Video Testimonial,
Gonna have Live Video call Interaction session
with Me.**

Send ur Video Testimonial to the TELEGRAM No: 9003113840

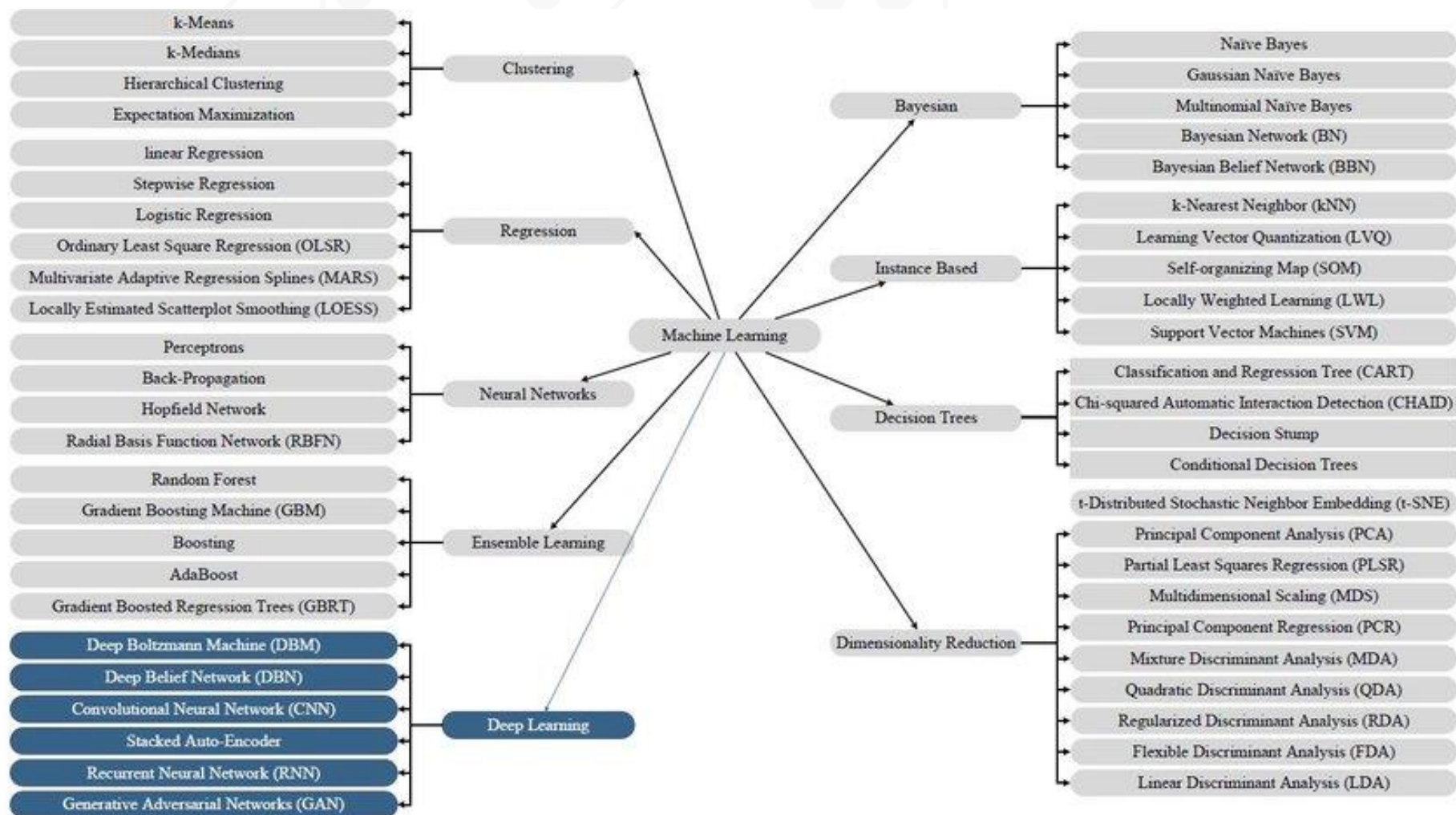
Also in Description

Video Testimonial – Video Feedback

Machine Learning.

- Human's knowledge is only obtained by the experience throughout their life. For machines those knowledge is need to be fed, by collecting enormous amount of data on a certain application and fed to it, machines also obtains the knowledge in short period of time.
- There are three types of Machine Learning
 - ✓ Supervised
 - ✓ Unsupervised
 - ✓ Reinforcement





Supervised Learning.

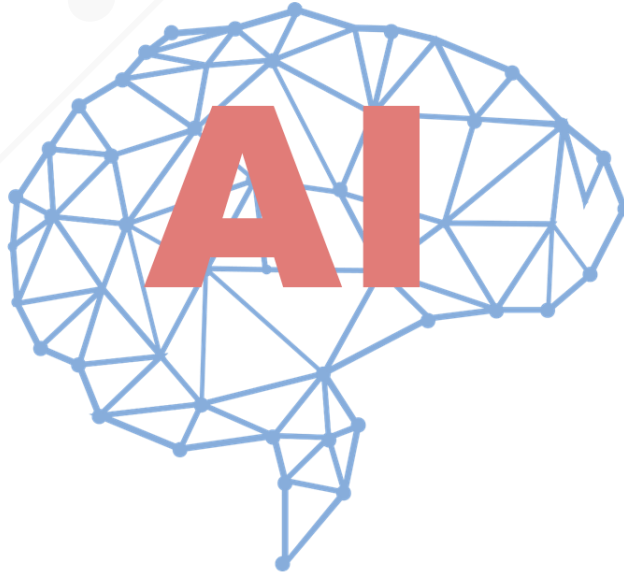
Input Data

Labelled

These are Apple



These are Banana



Model

Prediction

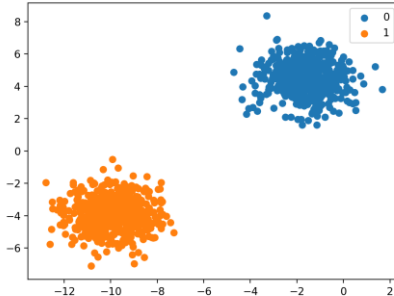


Its an Apple

SUPERVISED LEARNING.

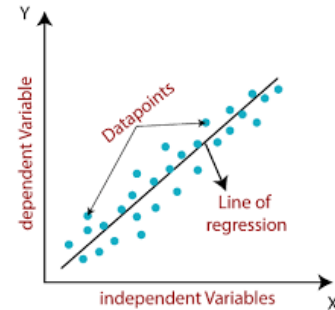
CLASSIFICATION

- Predictive modeling problem where a class label is predicted for a given example of input data.
- Given an example, classify if it is spam or not. Given a handwritten character, classify it as one of the known characters.



PREDICTION/REGRESSION

- It allow us to predict a continuous outcome variable (y) based on the value of one or multiple predictor variables (x). Briefly, the goal of regression model is to build a mathematical equation that defines y as a function of the x variables.
- Continuous rather than discrete



CLASSIFICATION PREDICTIVE MODELLING – SUPERVISED LEARNING.

Binary Classification – Classification tasks that have two class labels

Multi-Class Classification – Classification tasks that have more than two class labels.

Multi-Label Classification – classification tasks that have two or more class labels, where one or more class labels may be predicted for each example.

Imbalanced Classification – classification tasks where the number of examples in each class is unequally distributed.

IMAGE CLASSIFICATION

HAND GESTURE & LEAF DISEASE

OBJECT RECOGNITION

ROAD SIGN

REGRESSION – SUPERVISED LEARNING.

Linear regression – Linear regression performs the task to predict a dependent variable value (y) based on a given independent variable (x). So, this regression technique finds out a linear relationship between x (input) and y (output).

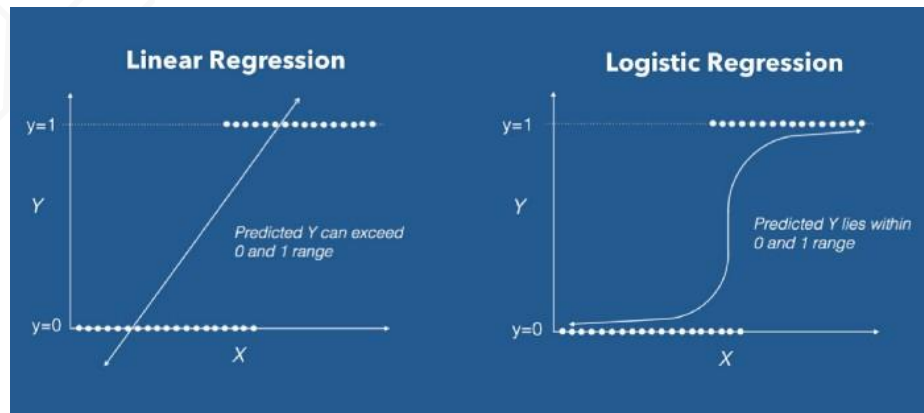
Logistic regression – Logistic regression is a classification algorithm used to assign observations to a discrete set of classes.

It has activation Function

Ex: Email spam or not spam, Online transactions

Fraud or not Fraud, Tumor Malignant or Benign.

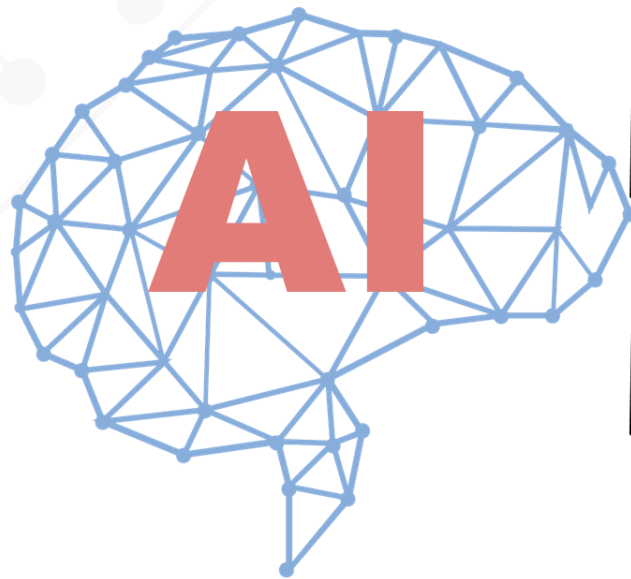
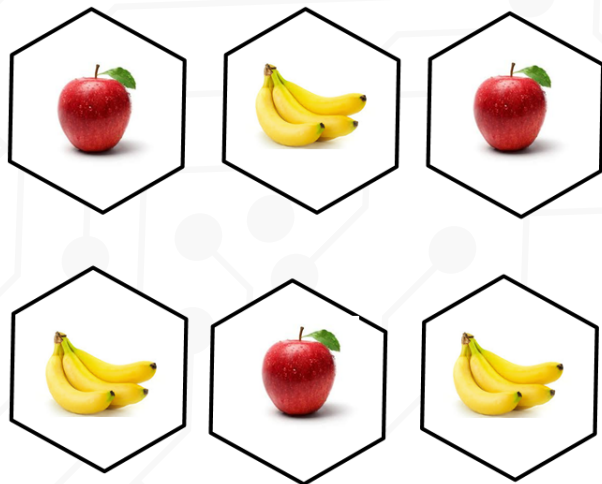
Logistic regression transforms its output using the logistic sigmoid function to return a probability value.



Unsupervised Learning.

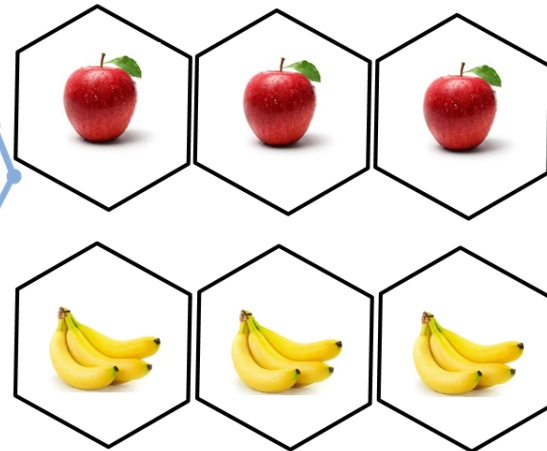
Unlabelled

Input Data



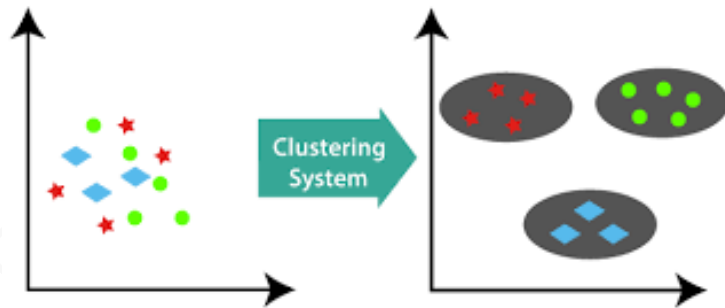
Model

Prediction



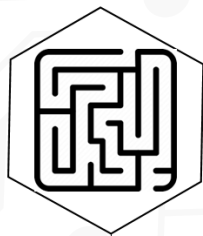
CLUSTERRING – UNSUPERVISED LEARNING.

- Set of inputs is to be divided into groups.
- The groups are not known beforehand, whereas classification knows



Reinforcement Learning.

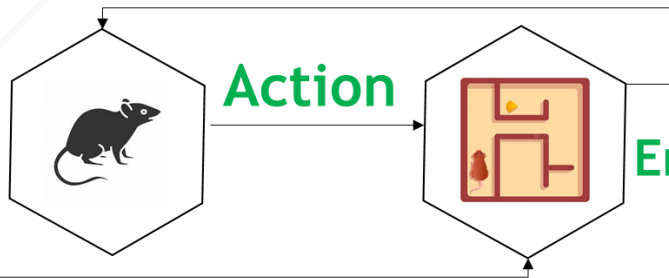
Internal State



Reward

Action

Environment



Observation

REINFORCEMENT LEARNING.

- It is about taking suitable action to maximize reward in a particular situation.
 - It is employed by various software and machines to find the best possible behavior or path it should take in a specific situation.
 - Output depends on the state of the current input and the next input depends on the output of the previous input
- ✓ **Positive**
- ✓ **Negative**



3 Combo Course

BUY 3 COURSE at Rs.999 Only

Data Analytics + Artificial Intelligence + Machine Learning

Batch-3 Last Batch started

- ✓ Access to all 90 Days Video Lectures (Value ₹12,000)
- ✓ 50+ Projects - From Scratch (Value ₹75,000)
- ✓ 100+ Source Code (Value ₹10,000)
- ✓ Technical Materials (PPT & Mindmap) (Value ₹10,000)
- ✓ Bonus Task, Assignment & Mindset Lectures (Value ₹5,000)
- ✓ Forum Telegram discussion & Support (Value ₹2,000)
- ✓ 3 - Internship E-Certificate on Artificial Intelligence, Machine Learning and Data Analytics

~~Total Value Rs 1,14,000~~

Today Just Rs. 999

SEND VIDEO TESTIMONIAL

**Participants who sends Video Testimonial,
Gonna have Live Video call Interaction session
with Me.**

Send ur Video Testimonial to the TELEGRAM No: 9003113840

Also in Description

Video Testimonial – Video Feedback

DO THE PROJECT & RESEARCH ON TOPIC IN WHICH ELON MUSK DOING

BRAIN COMPUTER INTERFACE

SEPTEMBER 23 & 24
2021
STARTS AT 11:00 AM



INTERFACE YOUR BRAIN WITH THE COMPUTER - **BRAIN CONTROLLED ROBOT**





REGISTER NOW

MACHINE LEARNING HACKATHON - FULL HANDSON

30-DAYS | FROM SCRATCH



Date: 27th Sep to 26th Oct

Time: 7.00 PM - 8.00 PM IST



E-Certificate will be Provided



REGISTER NOW



BECOME COMPUTER VISION ENGINEER

**Tech which is used in
AUTONOMOUS VEHICLES**

Learn Faster than you Think





Q & A session



Thanks!

Connect with me on **LinkedIn:**
link in Description

Product & Project:
www.pantechsolutions.net

Course:
Learn.pantechsolutions.net

Tomorrow session

**Evaluating & Deploying Machine Learning
Algorithm**

