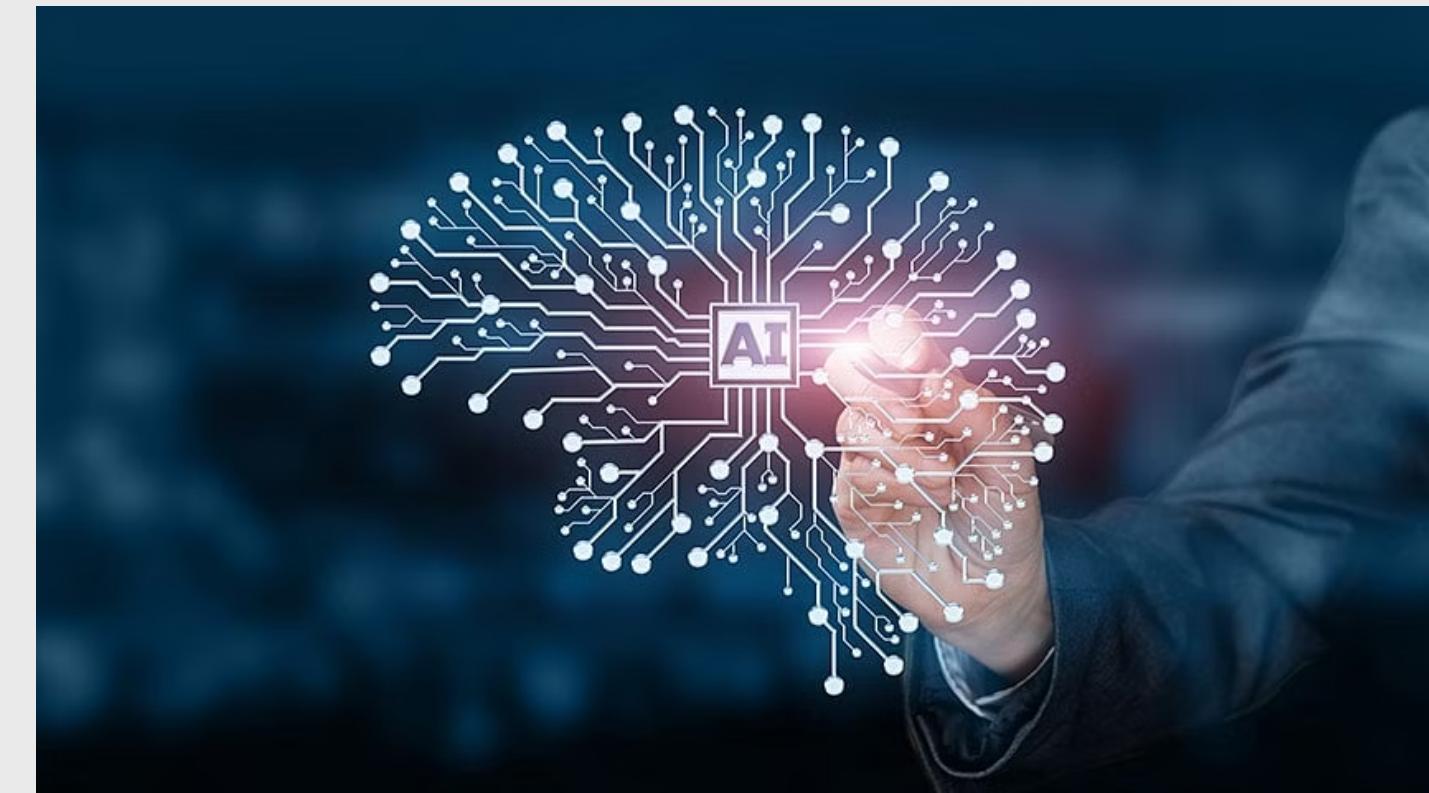


# **AGILE SOFTWARE ENGINEERING**

# What is AI?

The human intelligence in  
the computer is called AI.



# Types of learning

There are three types of learning:

1. supervised learning: learn from someone
2. Reinforcement learning: involves rewards and penalties
3. Unsupervised learning: Learn on your own

# Supervised learning has the following features:

- >Learning from someone.
- >Features and labels.
- >Regression and classification algorithms.
- >Features: $x$ ->
- >Label: $y$ ->
- >model: $2x=y$

# >PPDD: Prescriptive,predictive,descriptive,diagnostic analysis

## Classification:

- >Logistic regression
- >Decision tree
- >Random forest
- >Support vector machine
- >KNN->K-near neighbour
- >NB->Naive Bayes

# Libraries used for ML:

- Numpy
- Scipy
- Matplotlib
- Pandas(data analysis)
- Scikitlearn
- Scientific process

# Steps involved in ML programming

- 1.Get/collect data: KAGGLE
- 2.Identify the algorithm: Regression or classification.
- 3.Fit: Take the input and output and create the model.  
Predict: will take input and predict output  
Score:user prediction accuracies.
- 4.Training data: Testing data