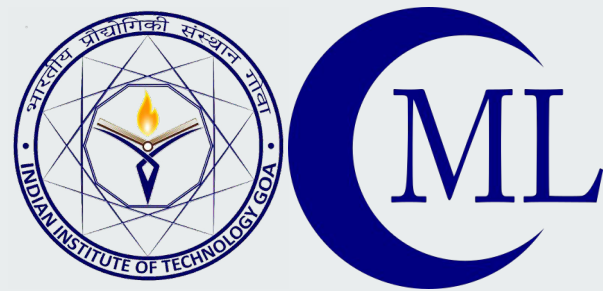# Machine Learning Circle

ML Circle Inception @ IIT Goa

< Why ML Circle? >

To connect students and faculties from data science and machine learning to foster learning amongst each other.
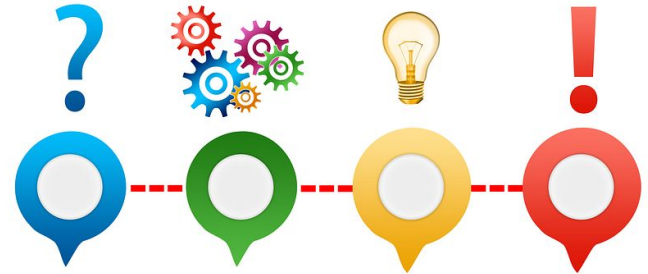
How it will be done?

1. By meeting fortnightly, some of us will present a topic and the rest of us will actively participate in the discussion of that topic.

How it will be done?

2. We can bring the problem faced to understand some concepts or while implementation and get it solved with the help of members.
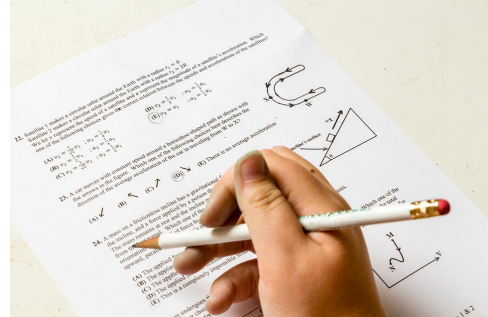
How it will be done?

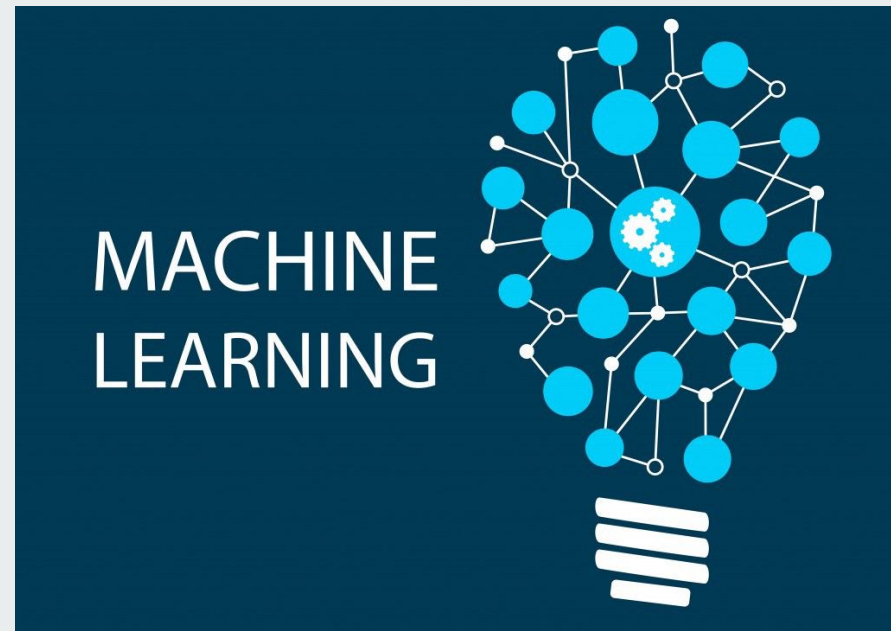**3.** It will provide a platform to connect people who want to collaborate on a project or research or competition.

To Maximize the Benefit ?

1. **Attend meetings regularly**
2. **Understand all prerequisites beforehand**
3. **Take active participation in discussions**
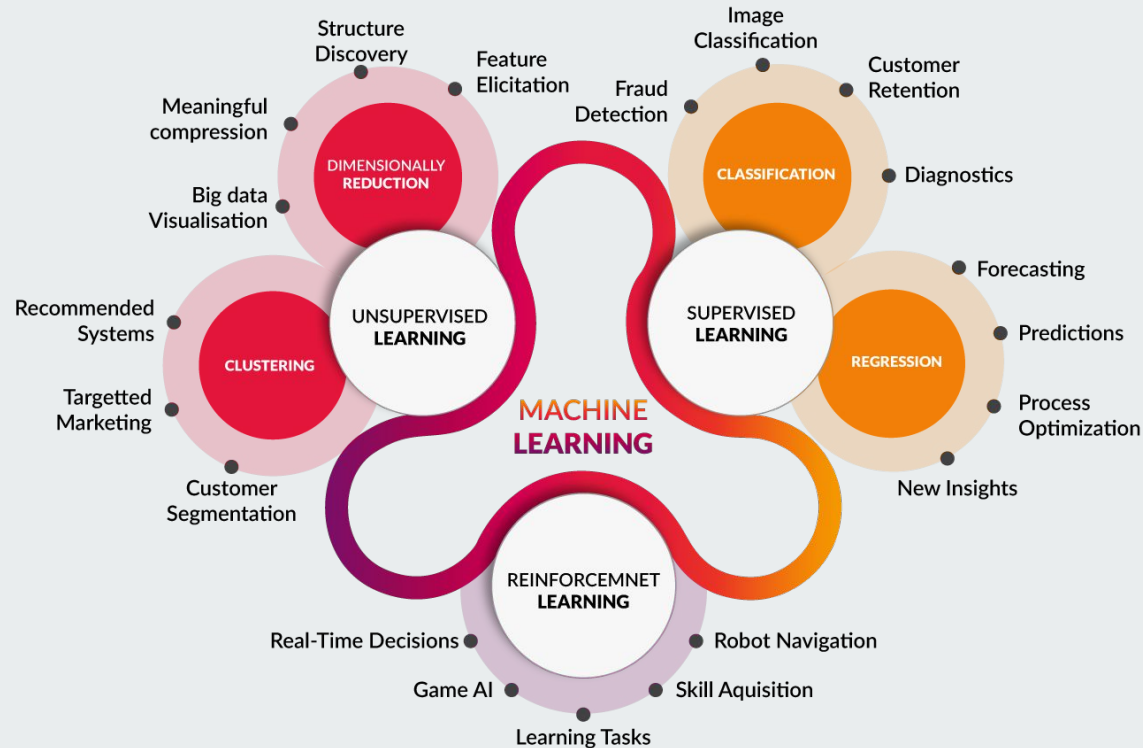
< What is ML ? >

Machine learning is an application of **artificial intelligence** (AI) that provides systems the ability to automatically learn and improve from experience without being explicitly programmed.

MACHINE LEARNING

< ML Overview >

Some buzzwords

1. Artificial Intelligence- When a system or more specifically a computer program mimics or simulates the human decision-making process and performs tasks somewhat the way a human being does, then that is called Artificial Intelligence.

2. Machine Learning- systems use the already existing data, analyses them to teach a program to detect the patterns, in order to learn, define and predict new processes. ML is a subset of AI

3. Deep Learning-(All about training Deep NNs) It is an advanced approach to ML. Deep Learning algorithm uses the similar structure and functionality of the human brain. It consists of nodes or neurons like a human brain.

Some buzzwords

4.Big Data- Big Data certainly refers to a large or huge amount of data. It needs different storage systems and smart algorithms to handle it.

5.Data Science- DS uses smart and intelligent algorithms, data, analytics and statistical methods to extract unstructured data from different sources and produce structured data for further processing and investigation.

6. Data Mining-Data Mining is a way to analyze and evaluate very large information or data to create a new set of data.

< Tutorials to begin with ML >

Machine Learning - https://www.coursera.org/learn/machine-learning

Kaggle | Faster Data Science Education - https://www.kaggle.com/learn/overview

Neural networks | Video series by 3Blue1Brown - https://www.youtube.com/watch?v=aircAruvnKk&list=PLZHQObOWTQDNU6R1_67000Dx_ZCJB-3pi

Showcase of some awesome "ML" used out there….