WEEK-1 PROJECT

MACHINE LEARNING :

Machine learning involves training a machine to learn from data and make decisions or predictions.

- To train a machine :
  - To understand data
  - To understand the relationship between data
  - To predict outcomes based on patterns in data

Supervised ML Algorithm :

- Labelled data:
  - ➢ Input is properly mapped with output
  - ➢ The algorithm learns from this mapping to make predictions on new data.

- Continuous Data:
  - ➢ Data which is not fixed and can take any value within a range

- Categorical Data:
  - ➢ Data which is fixed and falls into distinct categories

Regression:

- Used when the output consists of continuous values that are not fixed.
- Regression algorithms help in forecasting numerical outcomes like prices or temperatures.

Classification:

- Used when the output data is categorical , meaning it falls into predefined categories.
- Classification algorithms are ideal for tasks such as spam detection or disease diagnosis