**WEEK -1**

1. What is ML?

Ans: Machine Learning(ML) is a subset of AI which enables the system to autonomously learn and improve from the previous data feed to it also helps in prediction of the possibilities of the output. It focuses on algorithms allowing machines to learn from data without explicit the programming.

1. What is supervised machine learning algorithm?

Ans: It can be said as a category of machine learning which uses labeled datasets to train algorithms to predict outcomes and recognize its patterns.

Ex: let have 3 sets of data X1, X2 and X3 and output be labelled.

X1 X2 X3 Label

- - - play

- - - pause

In above examples X1, X2 and X3 are considered as inputs given to it and label is the output given from machine learning algorithm.

1. What is regression?

Ans: It is a supervised ML in which it predicts a continuous numerical outputs based on the input variables.

Ex: let have 3 sets of input data X1, X2 and X3 and output be labelled.

X1 X2 X3 Label

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1. What is classification?

Ans: It is also a supervised ML in which it predicts the category or class of data based on its features.

Ex: let have 3 sets of data X1, X2 and X3 and output be labelled.

X1 X2 X3 Label

- - - play

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In above examples X1, X2 and X3 are considered as inputs given to it and label is the output given from machine learning algorithm.