**Week-1 Assessment**

**1.What is Machine Learning ?**

**->** machine learning is systems that can learn from data and make decisions or predictions without being explicitly programmed.

->ml allows machines to identify patterns in data, make predictions, and adapt over time as they are exposed to more data

**2.What is supervised Machine learning Algorithm?**

**->** Supervised learning uses known data inputs and their corresponding outputs to learn a function that maps inputs to outputs. The goal is for the model to make accurate predictions on new, unseen data**.**

**3.What is Regression and Classification?**

**->1. Regression:** Regression is used when the output variable is continuous

Ex: Predicting temperature

**2. Classification:** Classification is used when the output variable is categorical

Ex: Crop type prediction