Clustering Vs Classification

| Clustering | Classification |
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| 1. Group similar data points into clusters | 1. Assign predefined labels to data points |
| 1. Unlabeled data | 2. Labelled Data |
| 1. Set of clusters | 3. Set of class labels |
| 1. Unsupervised learning | 4. Supervised learning |
| 1. E.g : Customer Segmentation | 5. E.g : Email Spam Detection |

Regression Vs Classification

| Regression | Classification |
| --- | --- |
| 1. Predicts a continuous numeric value | 1. Predicts class lables |
| 1. Output : Numerical Values | 2. Output : Categorical Values |
| 1. Algo : Linear Regression | 3. Algo : Logistic Regression |
| 1. Accuracy : R-Squared | 4. Accuracy : F1-Score |
| 1. E.g : Stock price prediction, house prices etc | 5. E.g : Email classification, image recognition etc |