

Unsupervised Machine Learning

Supervind ML

- Regression
- Classification

Input	<u>Dataset</u>				Dependent or ↓ o/p features
	f_1	f_2	f_3	f_4	o/p

Unsupervised ML → Clustering { group your data into similar clusters }

Datent

Age	Experience	Salary
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No O/P

Chapter 9


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⇒ Unsupervised ML



Group or cluster
this data

$$\left\{ \begin{array}{ccc} - & - & - \\ - & - & - \end{array} \right.$$
$$\left\{ \begin{array}{ccc} - & - & - \\ - & - & - \end{array} \right.$$

Eg: Customer Segmentation

Apple Product : Data Salary Spending-Score

↳ New Product ← Discount



Unsupervised ML

- ① K Means Algorithm
 - ② Hierarchical Clustering
 - ③ DBScan Clustering
 - ④ Silhouette Scoring
- } validate