

Unsupervised Learning

Unsupervised learning uses machine learning algorithms to analyze and cluster **unlabeled datasets**. These algorithms discover hidden patterns or data groupings without the need for human intervention.

Key Idea: There's no Y /labels.

Applications

Clustering

- K-means
- Hierarchical clustering
- Topic Modeling
- ...

Dimensionality reduction

- Principle Component Analysis (PCA)
- T-Sne
- ...

