

Bociat Daniel-Tiberiu

Unsupervised learning

## 1) Clustering

Grouping related examples, particularly during unsupervised learning. Once all the examples are grouped, a human can optionally supply meaning to each cluster.

## 2) Visualization

Data visualization or just visualization is the representation of data or information in a graph, chart, or other visual format.

## 3) Dimensionality reduction

Decreasing the number of dimensions used to represent a particular feature in a feature vector, typically by converting to a categorical feature represented as a continuous-valued feature (embedding).

## 4) Feature extraction

Retrieving intermediate feature representations calculated by an unsupervised or pretrained model for use in another model as input.

## 5) Anomaly detection

The process of identifying outliers, values that seem to out of place.

## 6) Association rule learning

Association rule learning is a rule-based machine learning method for discovering interesting relations between variables in large databases. It is intended to identify strong rules discovered in databases using some measures of interestingness.

(<https://developers.google.com/machine-learning/glossary#c>)

(<https://www.import.io/post/what-is-data-visualization/>)

([https://en.wikipedia.org/wiki/Association\\_rule\\_learning](https://en.wikipedia.org/wiki/Association_rule_learning))