



A-Z Machine Learning using Azure Machine Learning (AzureML)

Hands on AzureML: From Azure Machine Learning Introduction to Advance Machine Learning Algorithms. No Coding Required.

★★★★ 4.3 (215 ratings) 1,597 students enrolled

Created by Jitesh Khurkhuriya Last updated 3/2018 Denglish English





":US COMUSE

Clustering/Cluster Analysis

© litesh Khul

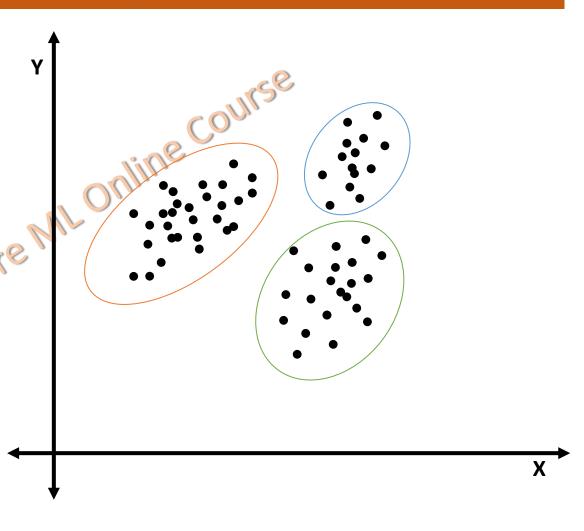
Clustering or Cluster Analysis

Clustering is the task of grouping a set of objects

Unsupervised Learning model

Discovering distinct groups in customer databases

Used for creating strategies to adopt for certain segments

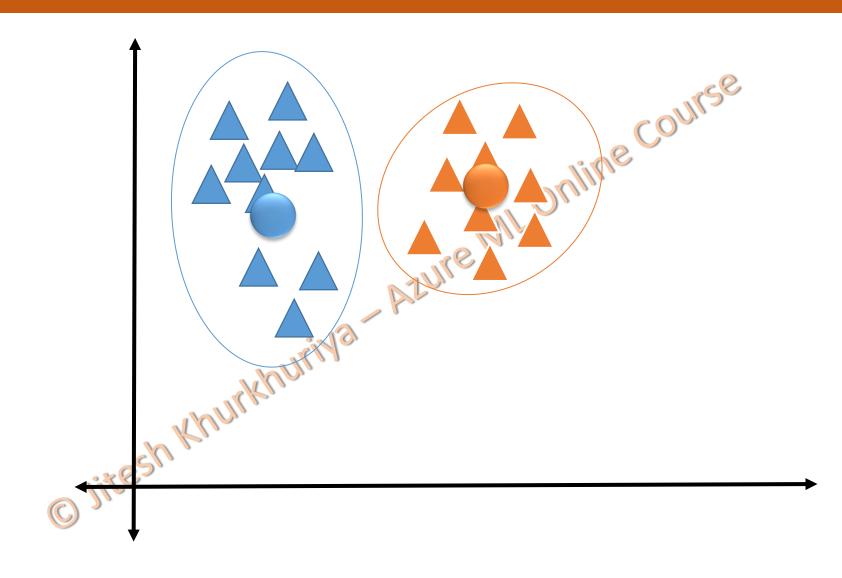


Examples of Clustering

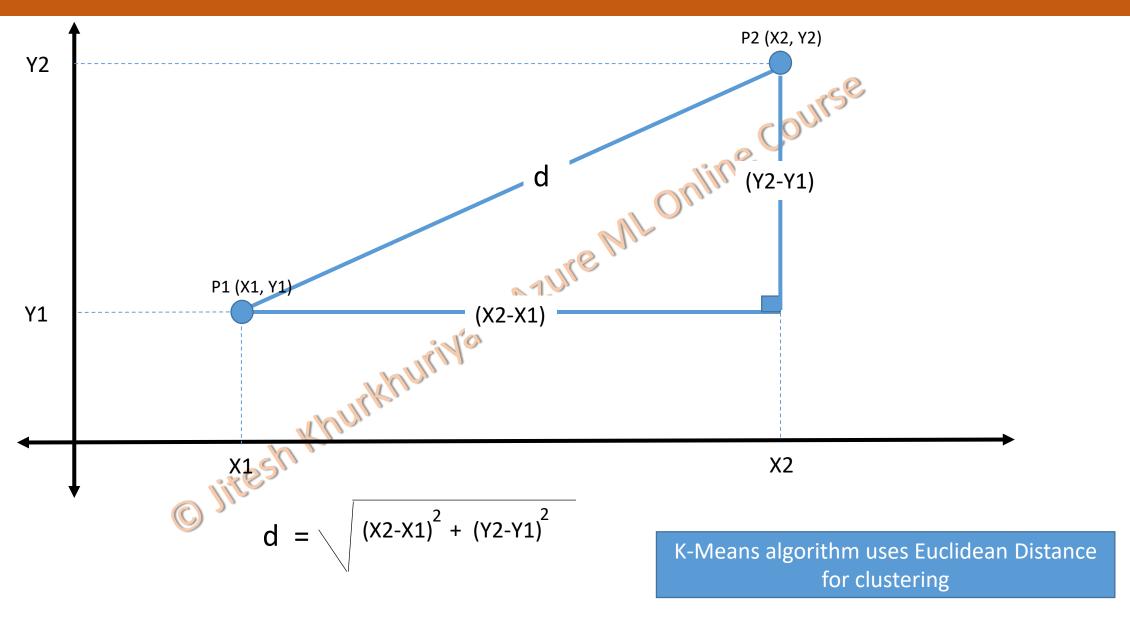
- Recommendation engines
- Market segmentation
- Social network analysis

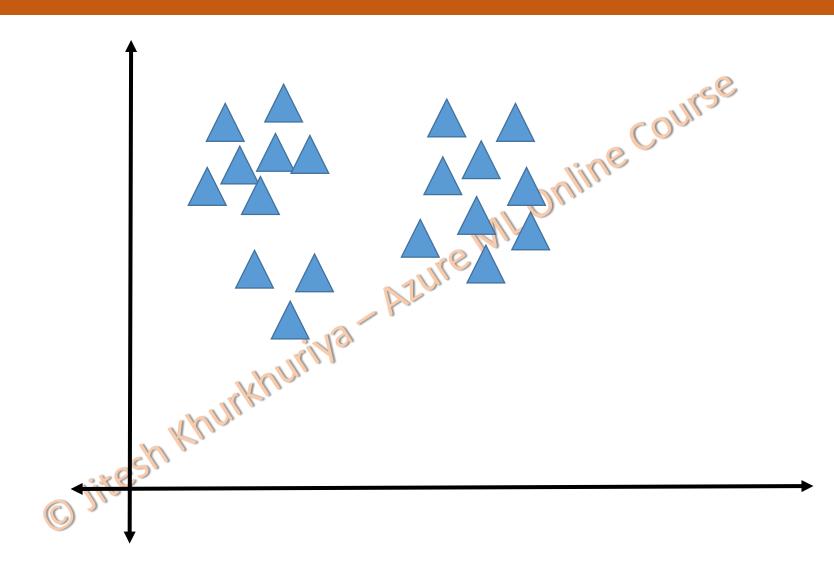


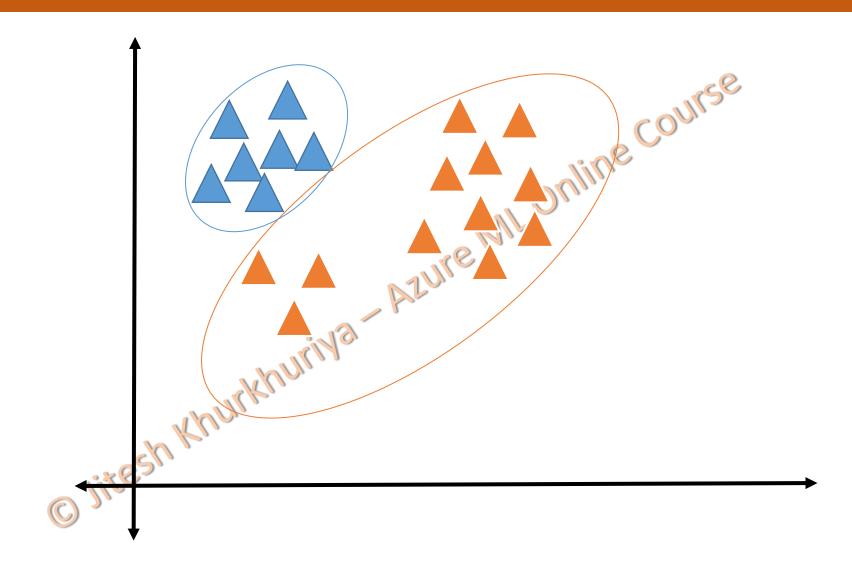


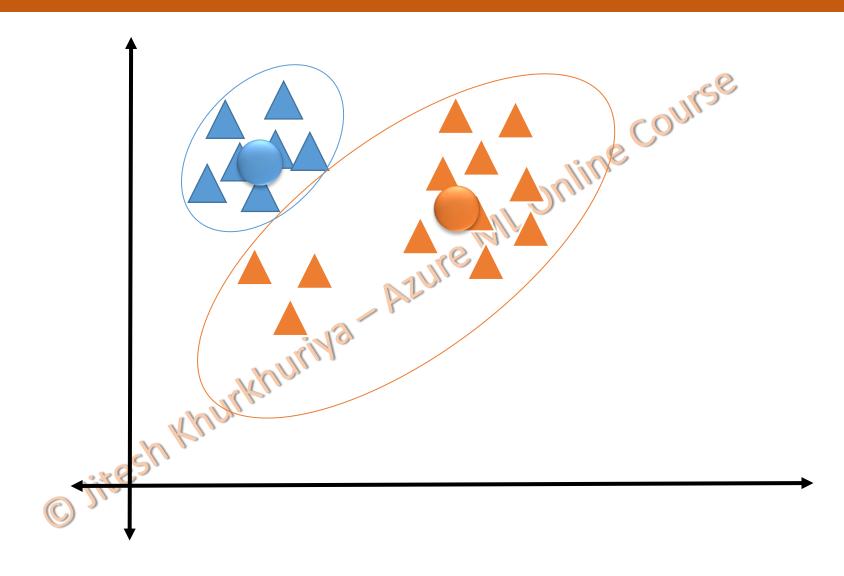


Euclidean Distance

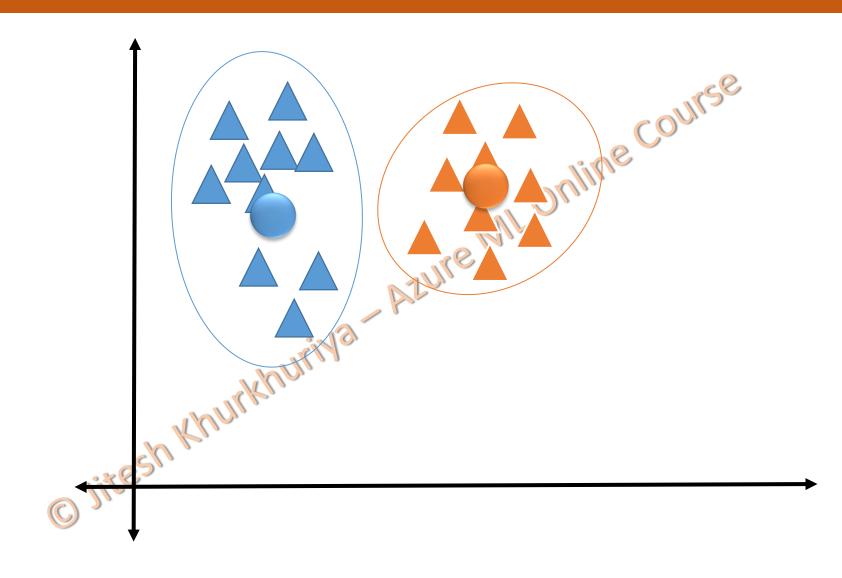




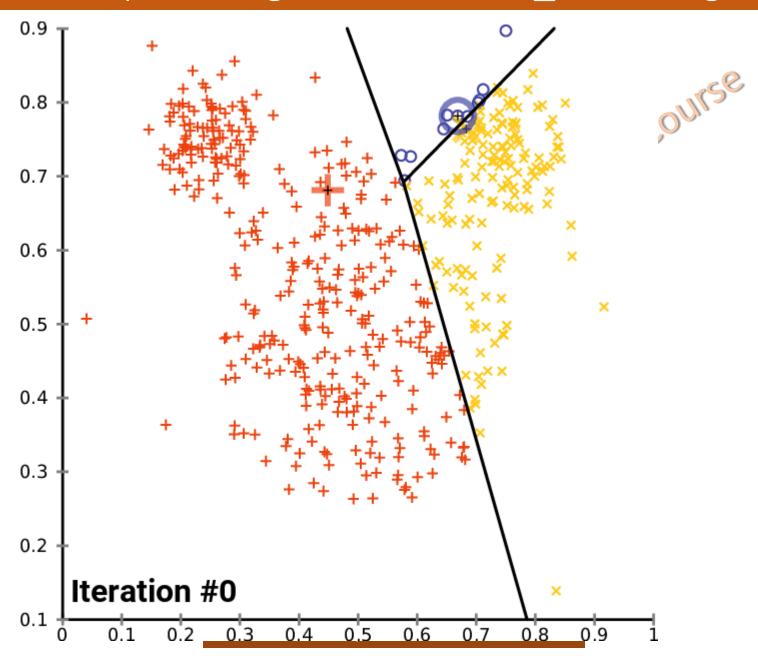








https://en.wikipedia.org/wiki/K-means_clustering User: Chire



Good Cluster Analysis

• Observations in the same group share similar characteristics

• Clusters have proportionate number observations

© Jitesh Khurkhuriya _ Azure ML Online Course

Cluster Initialization

- Random Random placement of data points into clusters
- First N or Forgy Method First Data points at Random
- K-Means++ Default method and an improvement over finding the initial means
- K-Means++ Fast Optimised for faster clustering
- Evenly
- Use Label Column

- ourse

Thank You and Have a Great Time!

@ litesh Kin