HOMEWORK H3.4 – CREATE A K-MEANS CLUSTERING IN PYTHON

K-MEANS OVERVIEW

Type: unsupervised machine learning

Usecases: Grouping of Data

Input: Datapoints and number of clusters

K-MEANS-CLUSTERING ALGORITHM

1. Random starting points (one for each cluster) ➔ centroids
2. Assign each Datapoint to its closest centroid
3. Use new mean of each cluster as its new centroid
4. Repeat Step 2,3 until no more modifications to centroids

SOURCES

PYTHON CODE EXAMPLES	HTTPS://BENALEXKEEN.COM/K-MEANS-CLUSTERING-IN-PYTHON/ HTTPS://TOWARDSDATASCIENCE.COM/UNDERSTANDING-K-MEANS-CLUSTERING-IN-MACHINE-LEARNING-6A6E67336AA1?GI=125404EB821
YOUTUBE VIDEOS	HTTPS://WWW.YOUTUBE.COM/WATCH?V=GN6FPYD1OIU