

# MINOR PROJECT – 3 (COGNITIVE APPLICATION)

## **CLUSTERING IMPLEMENTATION**

K-Means clustering is a method of vector quantization, originally from signal processing, that aims to partition  $n$  observations into  $k$  clusters in which each observation belongs to the cluster with the nearest mean, serving as a prototype of the cluster.

Implement KMeans Clustering Algorithm over the dataset given below. Make sure you also plot the scatter chart for the same.

Dataset:

[https://docs.google.com/spreadsheets/d/16ulbDGfyTZ6XUk7ScCcU28ueEj\\_Frw18/edit?usp=sharing&ouid=108584622572387237651&rtpof=true&sd=true](https://docs.google.com/spreadsheets/d/16ulbDGfyTZ6XUk7ScCcU28ueEj_Frw18/edit?usp=sharing&ouid=108584622572387237651&rtpof=true&sd=true)

Reference:

<https://towardsdatascience.com/understanding-k-means-clustering-in-machine-learning-6a6e67336aa1>

For the final submission either provide us with the link to the Github repository or upload your .ipynb file.

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