UN-SUPERVISED LEARNING

Procedures Followed:

Q1. Perform EDA on the given data. What does the primary analysis of several categorical features reveal?

Q2. Perform the following Exploratory Data Analysis tasks:6 marks

  a. Missing Value Analysis

  b. Outlier Treatment using the Z-score method

  c. Deal with correlated variables.

Q3. Perform dimensionality reduction using PCA such that the 95% of the variance is explained☞

Q4. Find the optimum value of k for k-means clustering using the elbow method. Plot the elbow curve☞

Q5. Find the optimum value of k for k-means clustering using the silhouette score method. Build a K-means clustering model and specify the number of observations in each cluster using a bar plot☞