

Segment Shopping Customers

- **Problem Statement:** Understand the Target Customers for the marketing team to plan a strategy.
- **Context:** Your boss wants you to identify the most important shopping groups based on income, age, and the mall shopping score.
- He wants the ideal number of groups with a label for each.

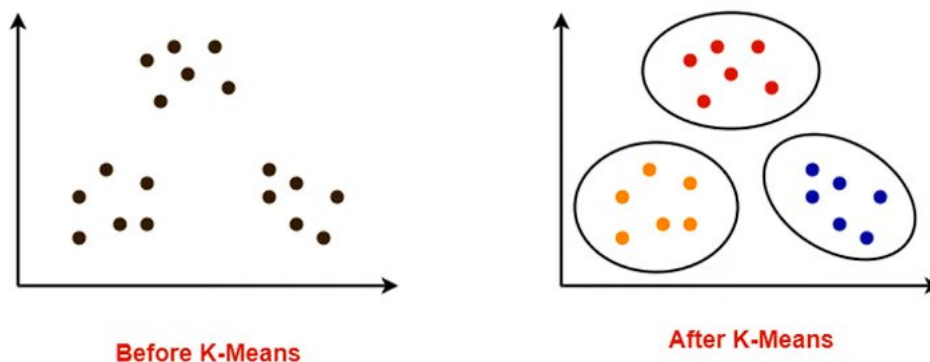
Objective Market Segmentation

- Divide your mall target market into approachable groups.
- Create subsets of a market based on demographics and behavioral criteria to better understand the target for marketing activities.

The Approach

To achieve this, the following four-step workflow has been outlined:

1. **Exploratory Data Analysis (EDA):** Perform quick initial analysis to understand the data distribution.
2. **K-Means Clustering:** Utilize this algorithm to mathematically define the customer segments.
3. **Summary Statistics:** Analyze the specific characteristics (mean income, average age, etc.) of each resulting cluster.
4. **Visualization:** Create charts to clearly communicate the findings.



Analysis

Target Cluster

- Target group would be cluster 1 which has a high Spending Score and high income
- 54 percent of cluster 1 shoppers are women. We should look for ways to attract these customers using a marketing campaign targeting popular items in this cluster
- Cluster 2 presents an interesting opportunity to market to the customers for sales event on popular items.

