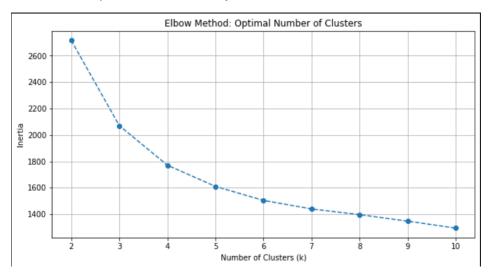
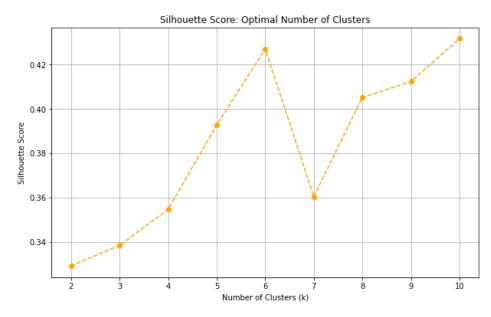
Task 3: Customer Segmentation / Clustering Report

Algorithm used: K-Nearest Neighbour (KNN)

Number of optimum clusters by elbow method, k = 4



Number of optimum clusters by silhouette score, k = 6



Lowest DB-index value (1.276) occurs at k = 3

```
DB-index values

[1.3732964944135821,
    1.2762843735437983,
    1.317955198859234,
    1.5286813281818423,
    1.705915893176444,
    1.737700643330643,
    1.7962853743938771,
    1.8884473121896532,
    1.8828910175597773]
```

Therefore, number of optimum clusters by DB-index value, k=3 Optimum value of k chosen = 3.

Customer segmentation using t-SNE for k=3.

