


Retail Customer Clustering Using Spectral, KMeans, and Agglomerative Clustering

Upload Online Retail II CSV

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 online_retail_II.csv 90.5MB

✕

Dataset loaded: 1067371 rows, 8 columns

Data Preprocessing

Rows after cleaning: 468353

Feature Engineering: Customer-Product Matrix

Sampled matrix shape: (2000, 500)

Clustering

Select Number of Clusters

2

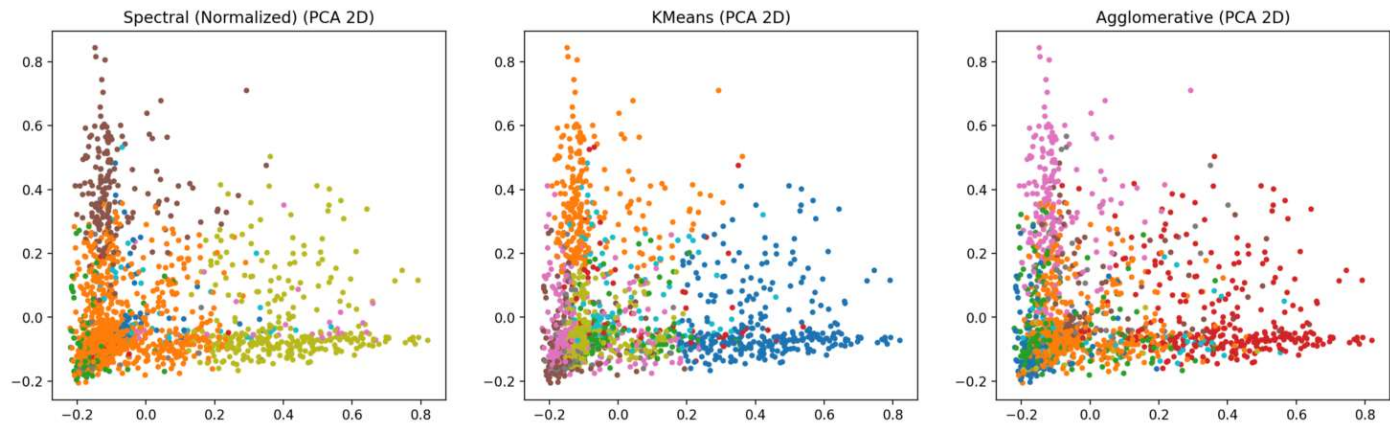
9

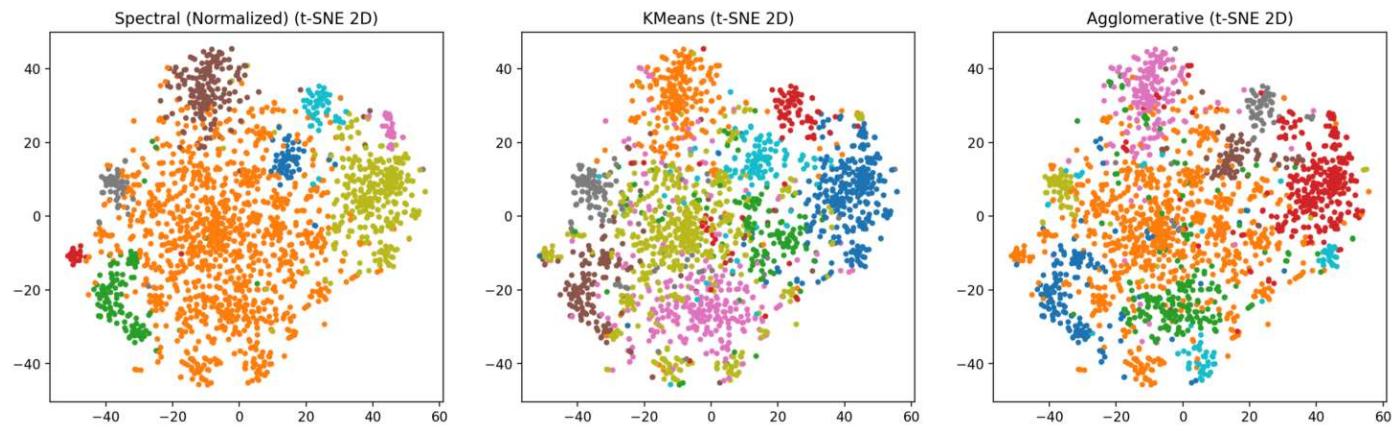
10

Evaluation Metrics

	Method	Silhouette	Davies-Bouldin	Calinski-Harabasz	Cluster Sizes
0	Spectral (Normalized)	0.0577	2.3349	61.8281	55 1168 124 21 184 27 51 314
1	KMeans	0.085	2.9224	79.8859	309 236 138 96 152 283 118 54
2	Agglomerative	0.0576	2.8847	63.1854	165 846 207 303 89 190 63 60

Visualizations





Cluster Size Distribution

