

# Patient Clustering Report (Age <= 50)

## Overview

This report summarizes a clustering analysis of patients aged 50 years and below, based on their visit behavior. Using KMeans with k=5 clusters, the model achieved a silhouette score of 0.32.

## Cluster Sizes

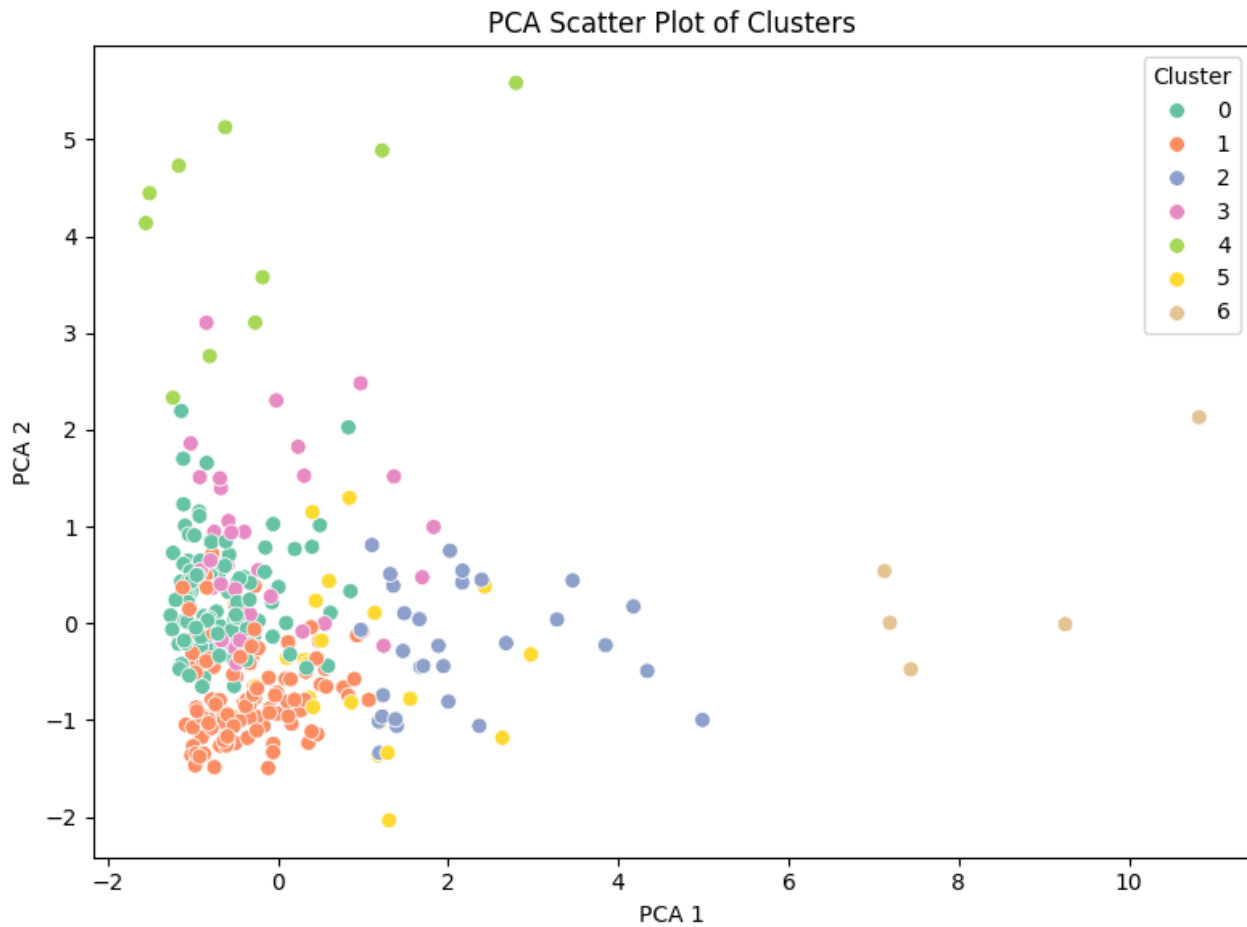
Cluster	Patients
0	112
1	117
2	30
3	35
4	10
5	21
6	5

## Cluster Profiles

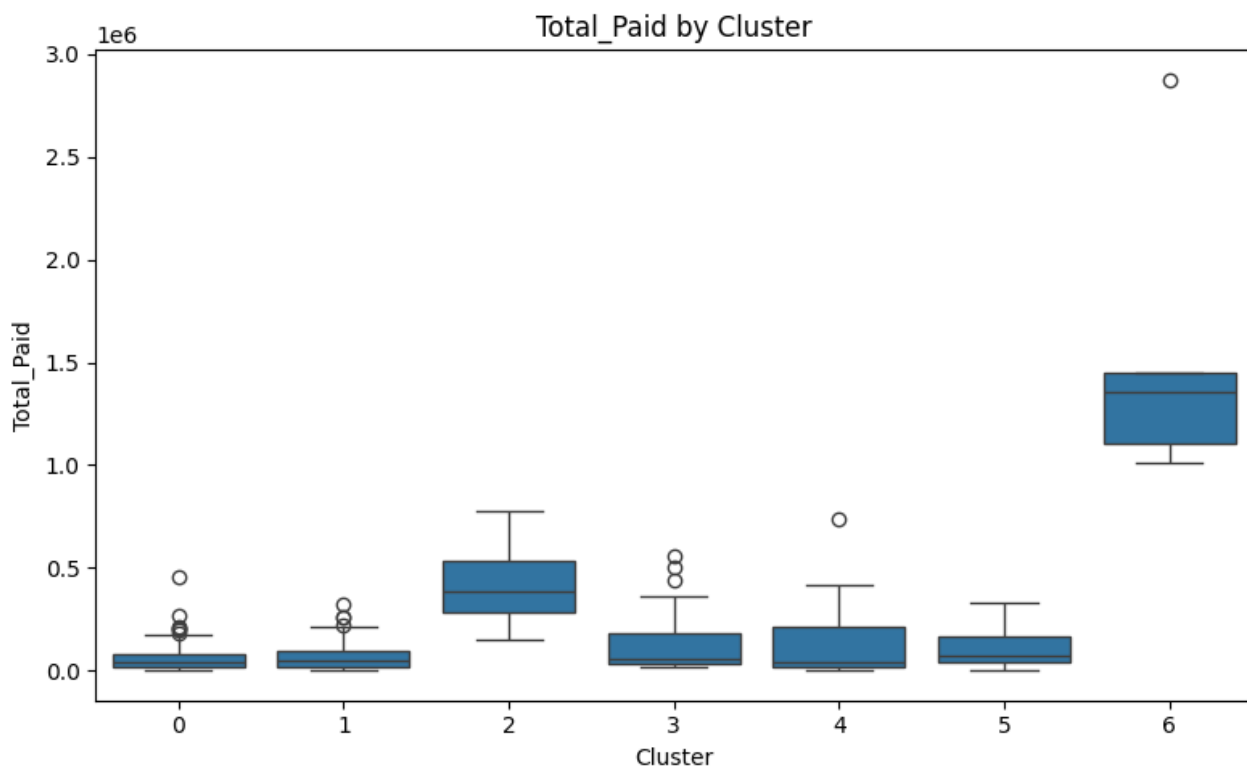
Cluster	Total_Paid	Avg_Paid	Visit_Count	Unique_ICD10	Avg_Age	Gender_M
0	61444.91	4669.17	13.86	3	4.91	0.00
1	69665.76	4457.65	15.22	3	5.18	1.00
2	413450.00	4943.31	88.30	5	3.53	0.50
3	126457.69	11553.85	10.40	3	5.94	0.71
4	165846.20	7254.26	22.10	3	34.70	0.00
5	106957.38	3703.33	26.86	7	5.19	0.38
6	1560455.00	6277.00	265.40	6	5.00	0.80

## Cluster Visualization (PCA)

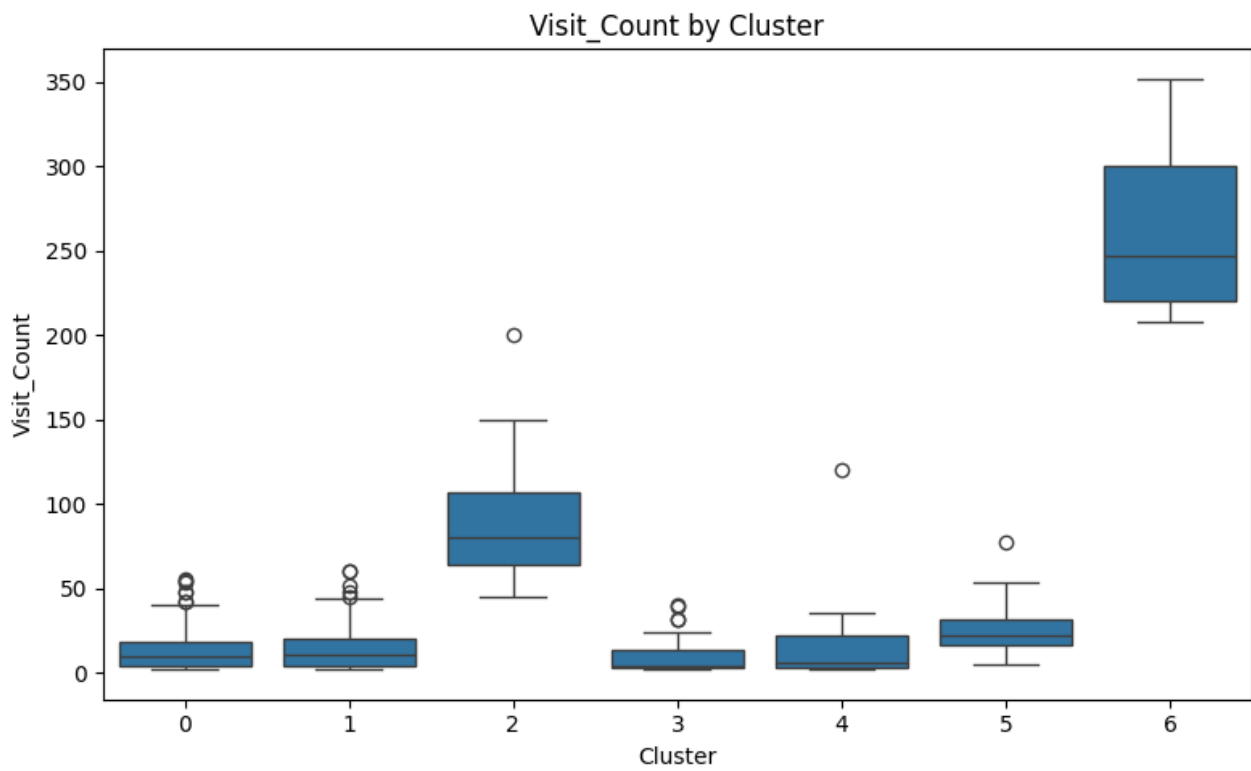
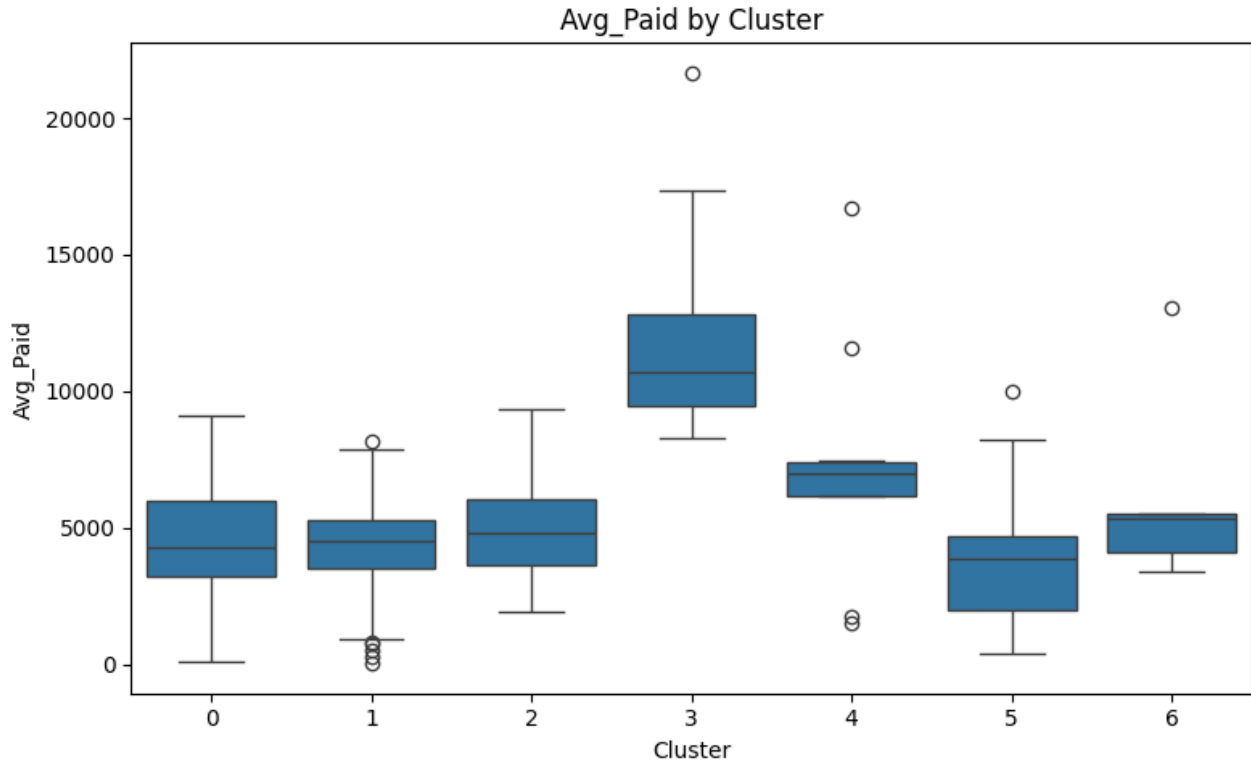
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## Feature Distribution by Cluster



# Patient Clustering Report (Age <= 50)



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