Structured Data Assignment

Thadimudupula Sahith

GUVI

001

Problem Statement

Problem Statement: "Analyzing Prescription Patterns for 'Target Drug'"

The goal is to identify and analyze the dominant prescription patterns for the 'Target Drug' administered to patients. This involves discovering recurring intervals or sequences in which the drug is prescribed.

Problem

The problem is to analyze the prescription patterns of the 'Target Drug' to understand the intervals or sequences at which it is administered to patients.

Objective

To identify and analyze dominant prescription patterns for the 'Target Drug', providing insights for effective drug administration strategies.

Specific Goals:

Identify recurring prescription patterns.

Visualize prescription patterns over time.

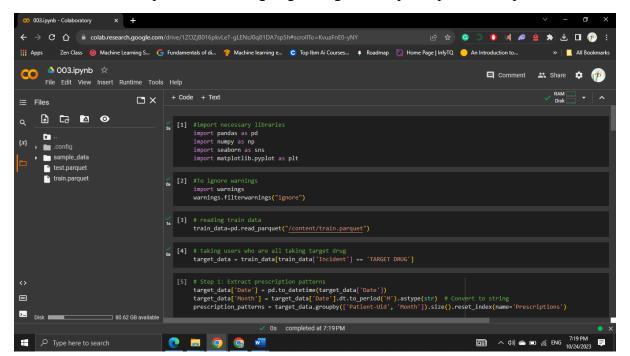
Extract insights for optimizing drug administration.

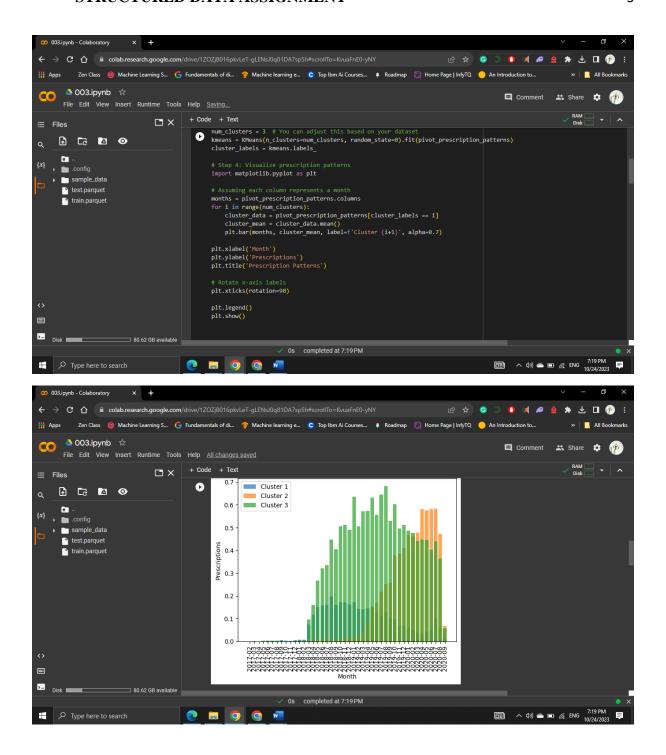
Potential Applications

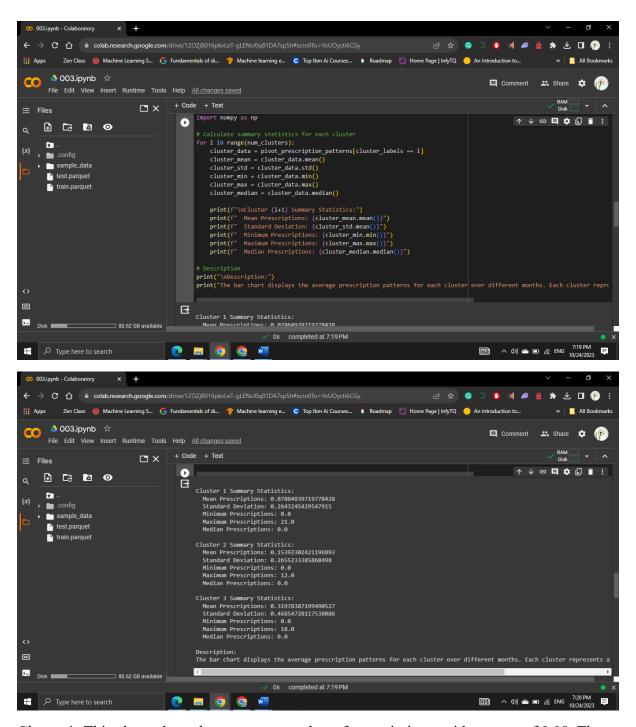
Healthcare Optimization: Tailoring drug administration schedules for better patient outcomes.

Clinical Protocol Optimization: Enhancing treatment protocols based on identified patterns.

Patient Adherence Improvement: Designing strategies to improve patient compliance.







Cluster 1: This cluster has a low average number of prescriptions, with a mean of 0.08. The standard deviation is relatively high, indicating some variability. The maximum number of prescriptions in a month for this cluster is 21, while the minimum is 0.

Cluster 2: This cluster shows a slightly higher average number of prescriptions compared to Cluster 1, with a mean of 0.15. The standard deviation is similar to Cluster 1. The maximum number of prescriptions in a month for this cluster is 12, while the minimum is 0.

Cluster 3: This cluster has the highest average number of prescriptions, with a mean of 0.32. It also has the highest standard deviation, indicating greater variability. The maximum number of prescriptions in a month for this cluster is 18, while the minimum is 0.

