

If more time were available, we could perform additional tasks such as:

- Exploring different machine learning models for problem statement 1 to improve predictive performance.
- Conducting further analysis in problem statement 2 to identify specific events or conditions that lead to dropoff.
- Trying different clustering algorithms and hyperparameter tuning in problem statement 3 to optimize cluster identification.
- Performing more in-depth visualization and interpretation of the prescription patterns to gain deeper insights.
- Exploring additional features or external data sources that might improve the predictive power of the model in problem statement 1.
- Conducting a thorough sensitivity analysis to understand the impact of different model parameters on the overall performance.
- Investigating potential correlations between prescription patterns and patient outcomes or other medical events.