

Akshay's Individual Contribution

Hi Professor,

As part of the project, my individual contribution focused on conducting detailed Exploratory Data Analysis (EDA), where I uncovered several key data quality issues. One major insight was that some cases were marked as "Open" but already had closure photos uploaded, suggesting potential misclassification or premature documentation. Additionally, I found inconsistencies where the uploaded closure photos did not match the case descriptions. These findings helped guide our team's approach to data validation. I also worked on building interactive visualization to visualize request volume, response times, and geographic patterns. To support long-term planning and forecasting, I developed a SARIMA time series model that analyzed historical trends and predicted future syringe-related 311 requests, which revealed seasonal spikes and informed proactive resource allocation strategies.

Best,

Akshay Ganesh Hanchate

Group 8