Forecast Intelligence Dashboard: SARIMA vs Prophet Anomaly Normal Forecast Prediction of last 28 days of Traffic volume. SARIMA performs better in short-term forecasts, while Prophet excels in capturing long-term trends and seasonal shifts. Residual and anomaly comparisons reveal complementary strengths across models. A hybrid strategy using SARIMA for near-term and Prophet for ex.. **Traffic Volume SARIMA Forecast Prophet Forecast** 140K 140K 140K 140K Number of Ve. Actual Actual 120K 120K 120K 120K 100K 100K 100K 100K 100K 50K Oct 18 Oct 28 Nov 17 2004 2005 Oct 18 Nov 7 Day of Day [2005] Day of Day [2005] Day of Day **Forecast Difference Traffic Forecast Variation - Sarima Traffic Forecast Variation - Prophet Model** Model **Prophet Forecast** 10K **SARIMA Forecast** 120K 100K 100K 80K 80K Oct 17 Oct 17 Oct 27 Nov 6 Nov 16 -5K Day of Day [2005] Day of Day [2005] **Residual Comparison Anomaly Detection - SARIMA Anomaly Detection - Prophet** 100K 100K Number of Vehicles Num Vehicles Prophet Diff **Prophet Diff** Sarima Diff Sarima Diff 50K 0К 0K -5K -3,892

-100K

Oct 18 Oct 28

Nov 7

Day of Day [2005]

Nov 17

-50K

Oct 18

Nov 2

Day of Day [2005]

Nov 17

Oct 18

Nov 2

Day of Day [2005]

Nov 17