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TITLE: Forecast

Model link: [Github](#)

Key insights:

- Local Route usage dominates all other transport over time.
- Local and rapid route are the most utilized services.
- Light Rail shows relatively stable daily usage.
- School transport shows clear dropping off during holidays or weekends.

ALGORITHM CHOSEN:

- **Algorithm:** ARIMA

ARIMA stands for:

- AutoRegressive
- Integrated
- Moving Average

Why ARIMA?

- ☐ Ideal for univariate time series forecasting.
- ☐ Handles trend and short-term dependencies.
- ☐ Works well for transport data with stable daily intervals.

Model Parameters:

- **AR(1):** Yesterday's effect on today
- **Differencing (1):** Remove trend
- **MA(1):** One-day lag of error