TEST AND TRAIN DATA:

80 % - TEST

20%- TRAIN

ALGORITHMS USED:

ARIMA :  
  
The dataset shows fluctuations in the number of journeys on different routes, with **Local Route** and **Light Rail** showing a steady increase, while **Peak Service** drops on specific days like **2023-07-30**.

* **Total Journeys** peaked at **36,426.81** on **2023-08-01**, likely due to specific events or increased service demand, and dropped to **30,749.82** on **2023-07-30**.
* **School** route journeys spiked on **2023-08-01** and **2023-08-02**, possibly due to school-related activities or events.
* The **Rapid Route** and **Local Route** show consistent passenger numbers, indicating high demand, while **Other** remains a minor contributor.
* Further analysis could include time series forecasting, trend decomposition, and route optimization for better service planning and demand management.

