Transit Model --Overview

PerformanceBand	IsRushHour	has_event	route_name
All	All	All	All

3
Total Routes

6
Total Stops

78.24%
Avg Passenger Accuracy %

0.16
Average of ErrorPerCapacity

12.23
Mean Abs Prediction Bias

80.10%
Avg Crowding Accuracy %

Performance Band Distribution

552 (25.77%)

913 (42.62%)

677 (31.61%)

PerformanceBand
- High
- Medium
- Low

Actual vs Predicted Passenger by Hour

● Sum of predicted_passenger_count ● Sum of actual_passenger_count

Sum of predicted_passenger_c...

10K

5K

hour

10   15   20
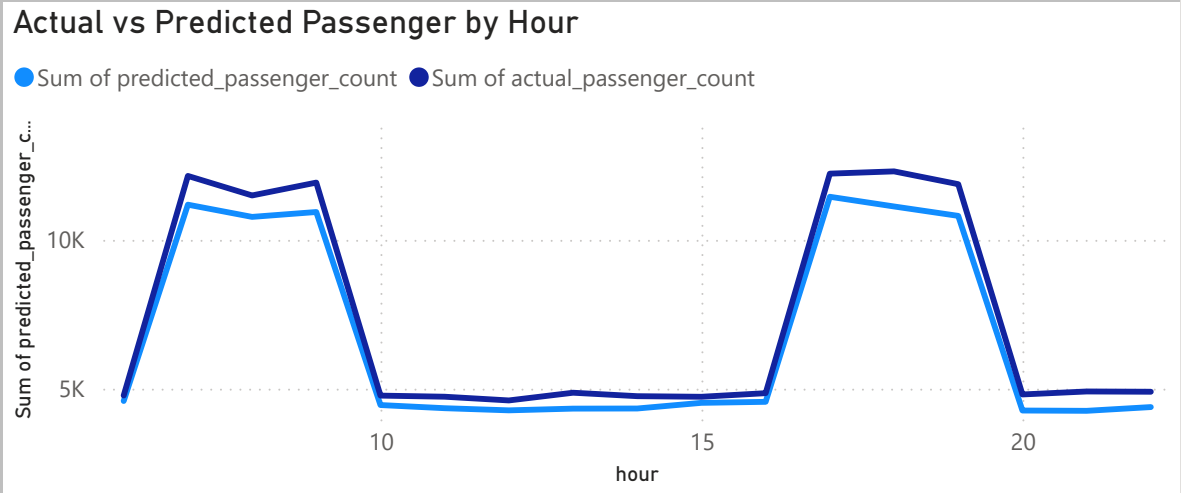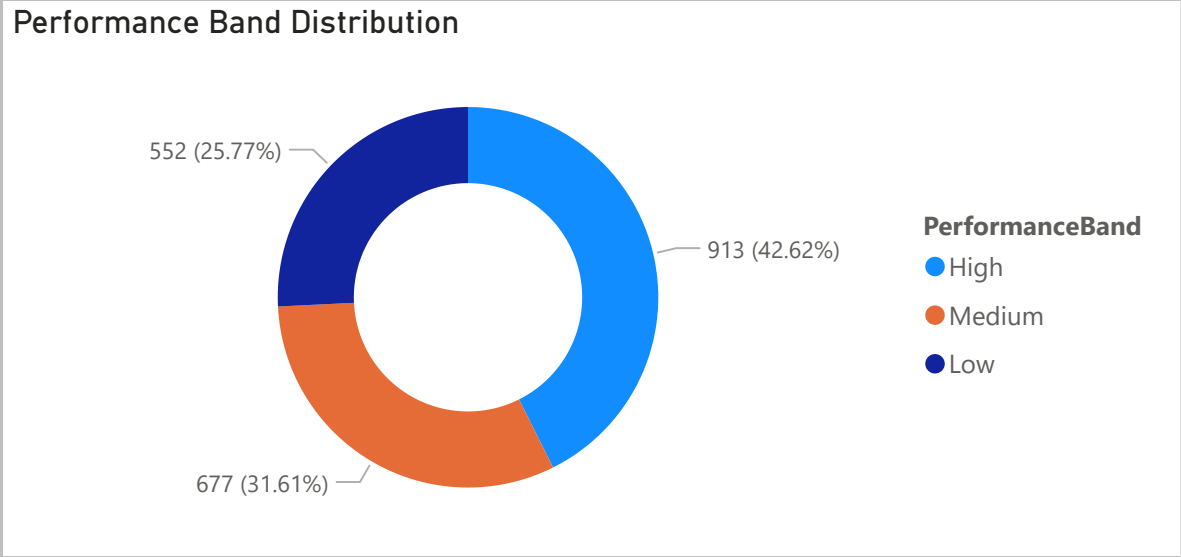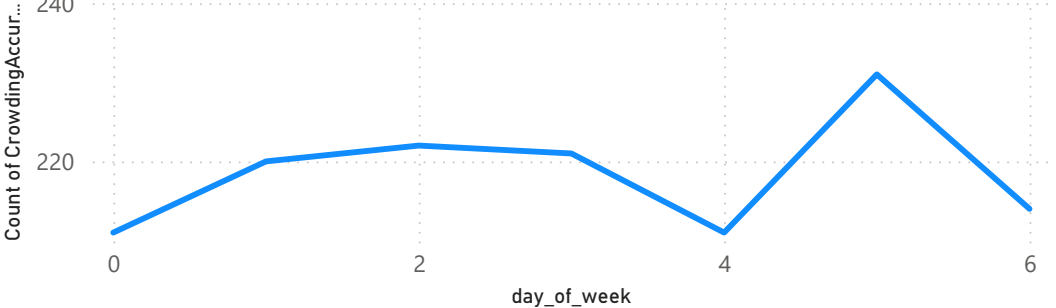
Transit Model: Trends & Comparisons

Passenger Accuracy by Day
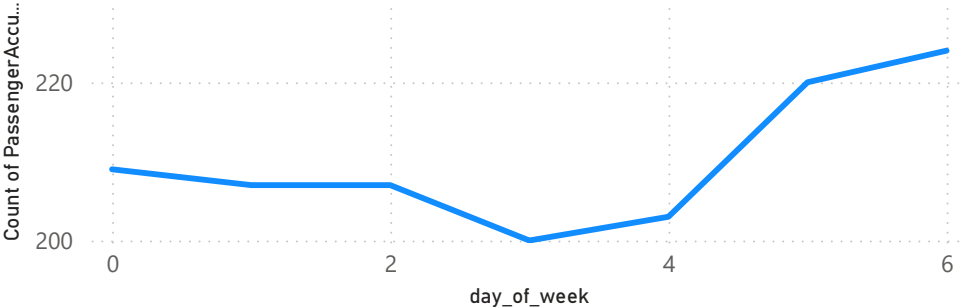
route_name
All

Crowding Accuracy by Day

Impact of Rush Hour & Events

has_event ● 0
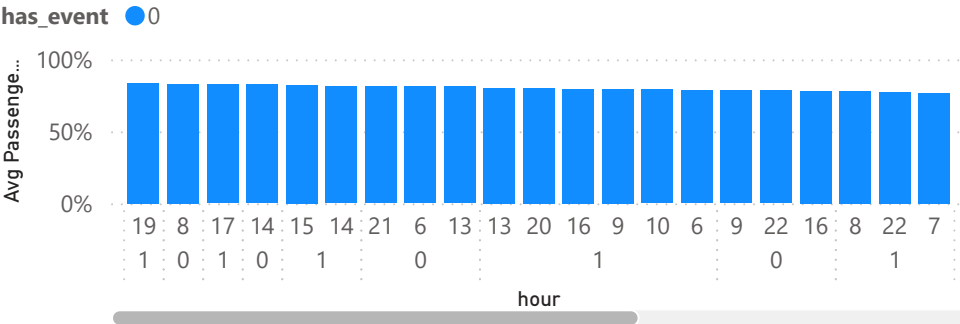
IsRushHour
All

is_evening_rush
All

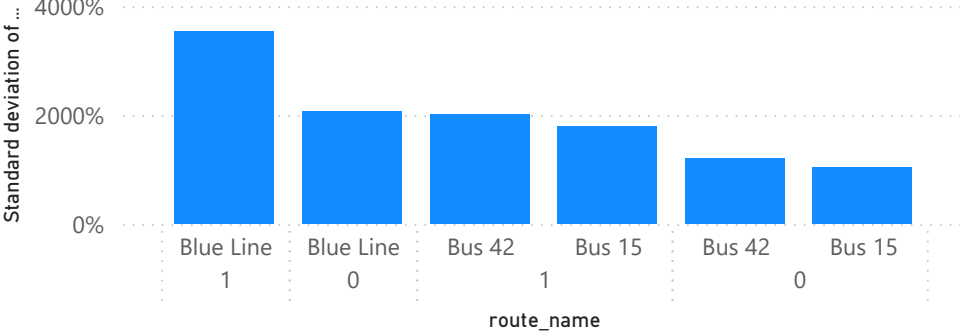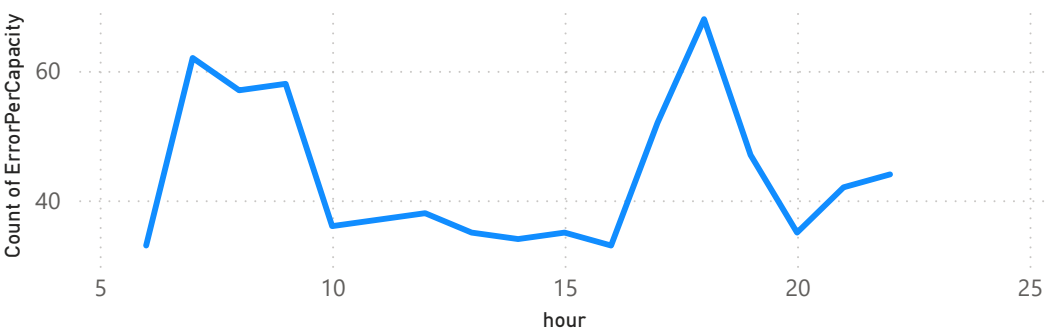## PredictionBias by route_name
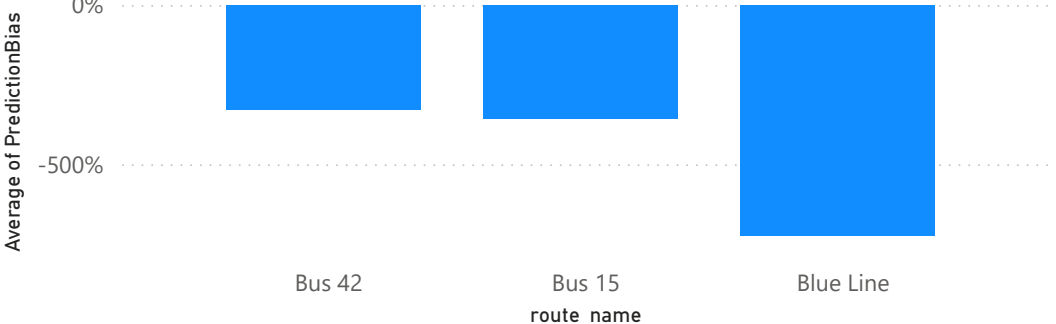
Impact of Route and Shifts on PredictionBias

PerformanceBand
All

ErrorPerCapacity by hour

Transit Model -- Operational Drilldown

DrillDown

route_name	stop_name	hour	predicted_passenger_count	actual_passenger_count	Mean Abs Prediction Bias
Bus 42	Shopping Mall	20	14	9	5.00
Bus 42	University Plaza	20	14	9	5.00
Bus 15	Shopping Mall	11	18	10	8.00
Bus 42	University Plaza	15	12	10	2.00
Total					**12.23**

day_of_week	6	7	8	9	10	11	12	13	14
0	84.39%	81.33%	80.58%	80.25%	81.52%	71.75%	74.99%	80.59%	84.78%
1	86.38%	77.29%	84.10%	81.81%	82.43%	80.94%	82.53%	79.24%	87.25%
2	76.89%	77.46%	82.36%	82.99%	79.11%	74.81%	78.53%	85.34%	82.11%
3	76.80%	79.45%	82.56%	80.18%	87.21%	82.25%	80.42%	85.36%	85.23%
4	83.27%	77.82%	77.67%	80.81%	72.94%	82.30%	73.78%	88.56%	83.80%
5	72.58%	70.38%	70.90%	71.23%	68.06%	71.09%	69.31%	71.84%	73.52%
6	74.94%	66.84%	79.14%	75.77%	70.88%	68.12%	69.16%	72.79%	74.68%
Total	**79.32%**	**75.80%**	**79.61%**	**79.01%**	**77.45%**	**75.89%**	**75.53%**	**80.53%**	**81.62%**

Impacts of Stops on Avg Passenger Accuracy

Count of PerformanceBand

552 (25.77%)
913 (42.62%)
677 (31.61%)
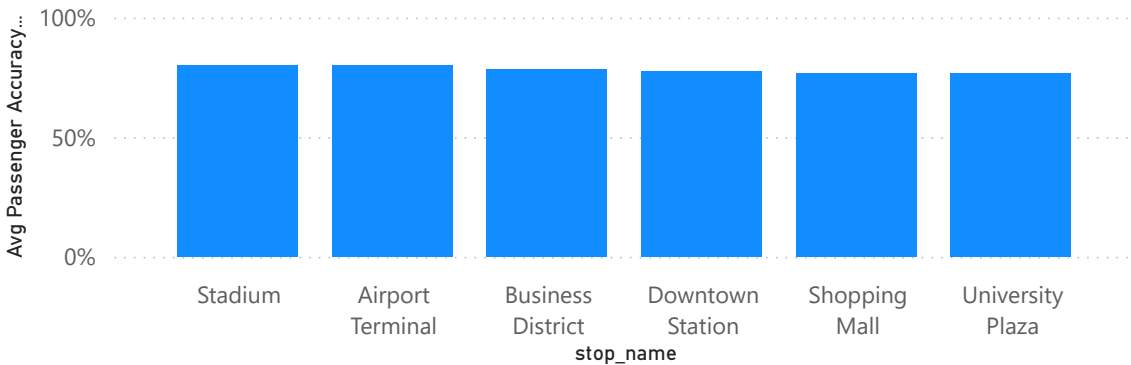
PerformanceBand
- High
- Medium
- Low

Transit Model -- Insights & Actions

Model Performance Snapshot

78.24%	12.23	0.78	0.78
Avg Passenger Accuracy %	Mean Abs Prediction Bias	Best Route Accuracy	Worst Route Accuracy

Distribution of Performance Bands

552 (25.77%)

913 (42.62%)

677 (31.61%)

PerformanceBand
- High
- Medium
- Low

Lowest Accuracy Routes

route_name: Blue Line, Bus 42, Bus 15
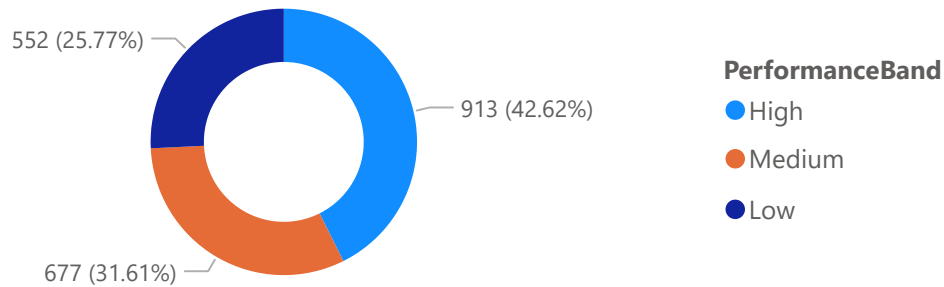
Avg Passenger Accuracy %: 0%, 20%, 40%, 60%, 80%
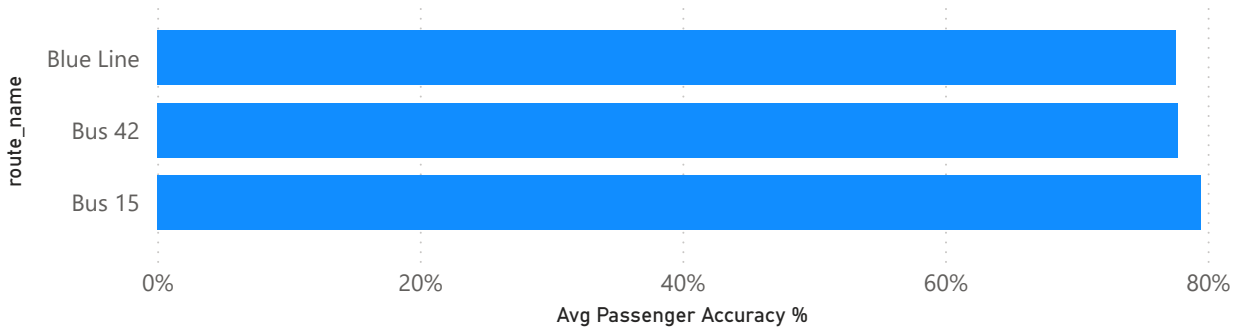
Some Insights

High had the highest Record count at 913, followed by Medium at 677 and Low at 552.

High accounted for 42.62% of Record count.

At 79.43%, Bus 15 had the highest Avg Passenger Accuracy % and was 2.39% higher than Blue Line, which had the lowest Avg Passenger Accuracy % at 77.58%.

Blue Line had 77.58% Avg Passenger Accuracy %, Bus 15 had 79.43%, and Bus 42 had 77.69%.