



Uber Analysis

Demand-Supply Gap Report

Comprehensive insights into ride request patterns and
strategic recommendations for optimization

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60%

Failed Requests

Of all ride requests result in negative customer experience
through cancellations or unavailability

Problem Statement

Core Issue

High volume of unfulfilled ride requests between city and airport affecting service reliability and revenue

Key Questions

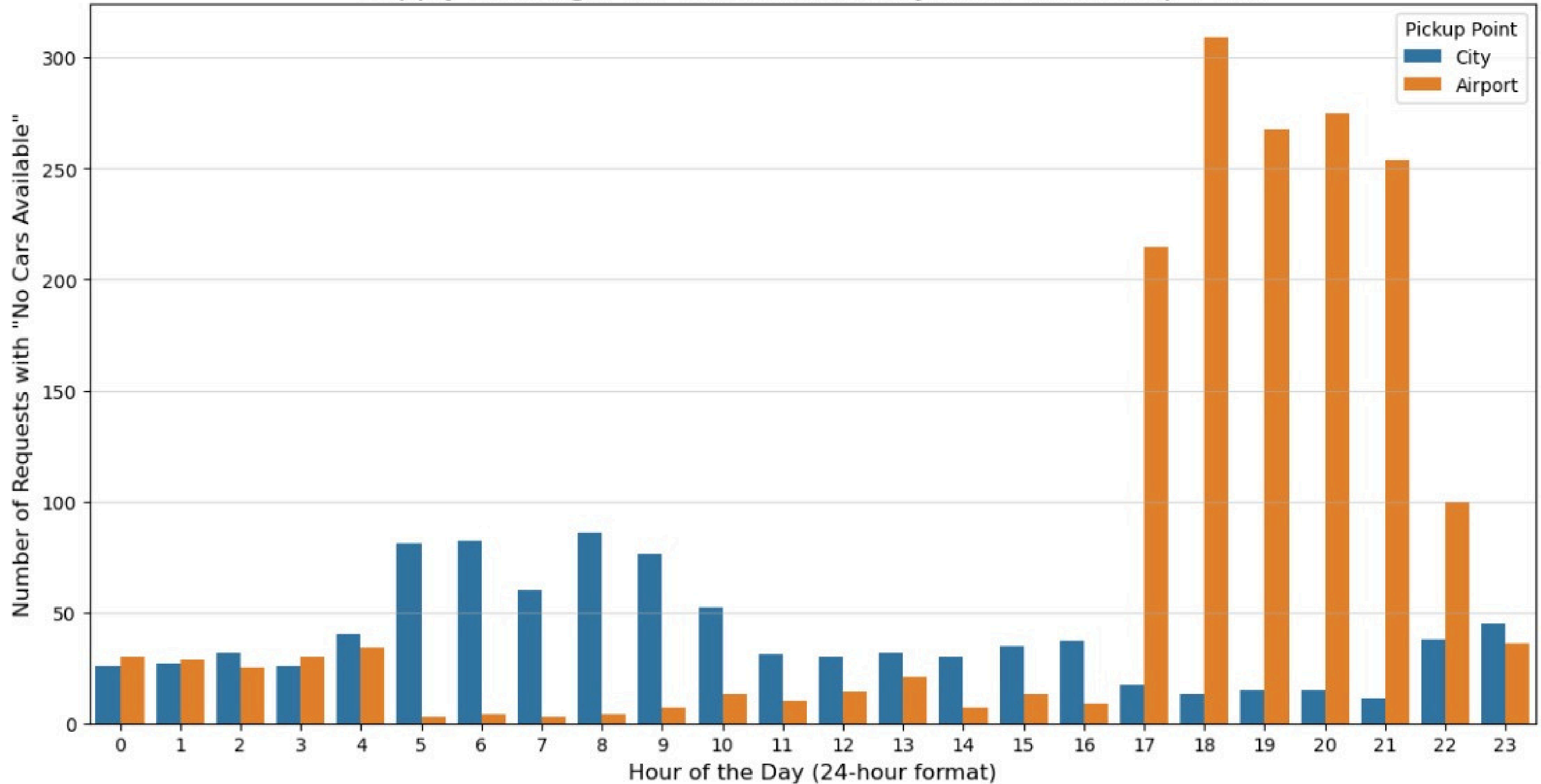
Identify peak demand-supply gap periods, location impact patterns, and underlying causes for optimization

Business Impact

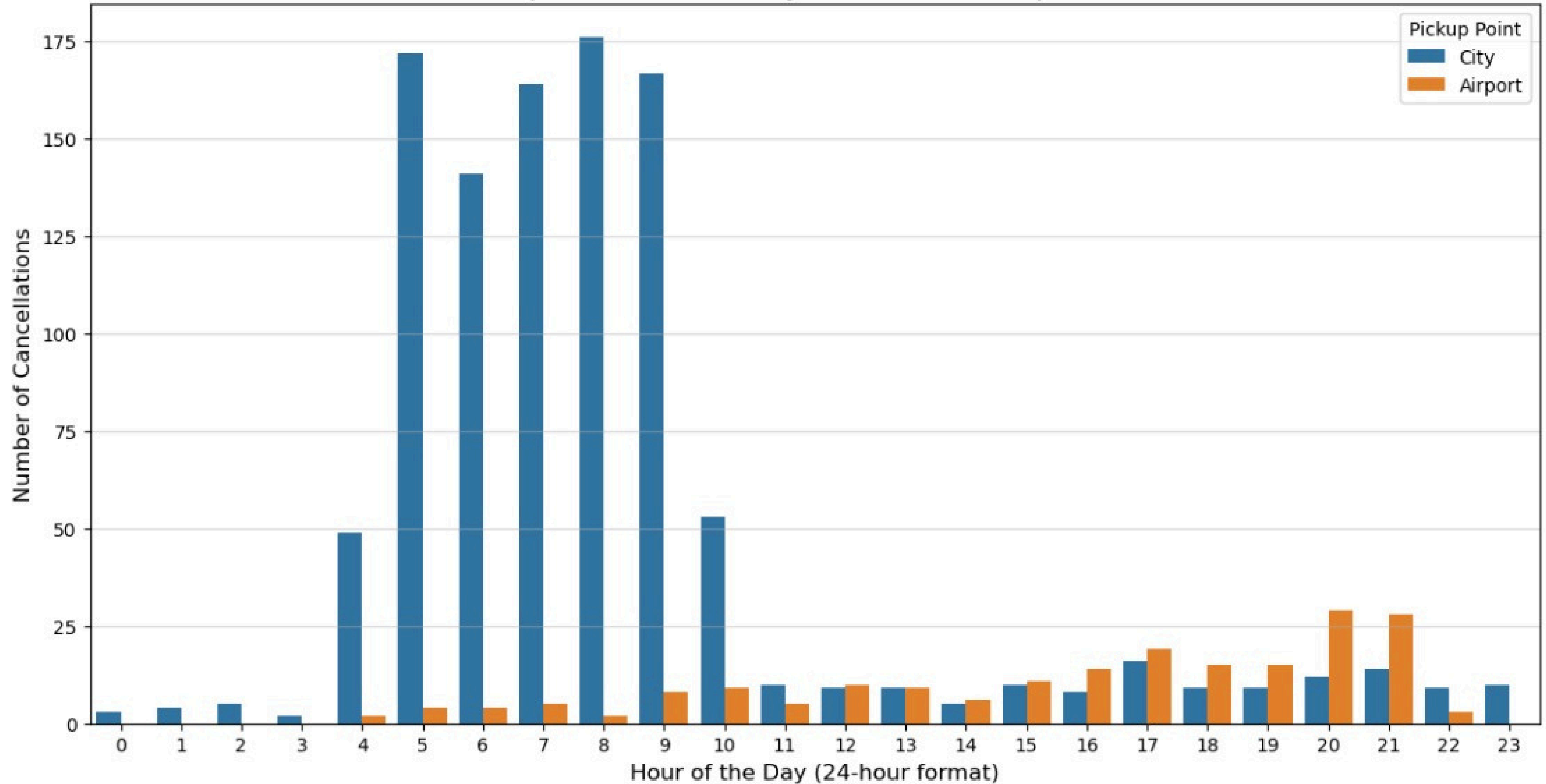
Poor customer experience leading to potential revenue loss and competitive disadvantage in market



Supply Shortage: No Cars Available by Hour and Pickup Point



Trip Cancellations by Hour and Pickup Point



Demand Patterns

Hourly Request Distribution Analysis

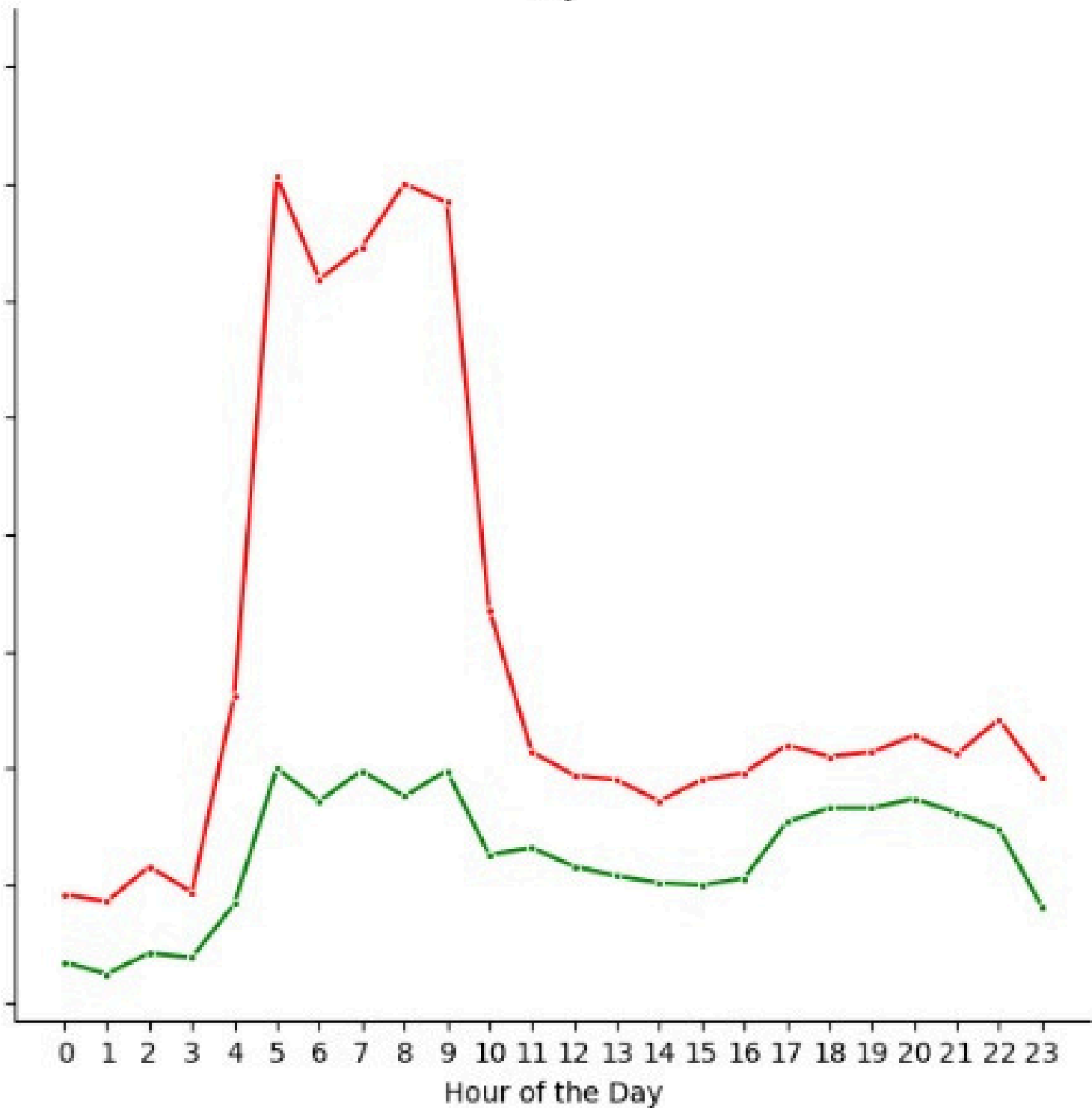
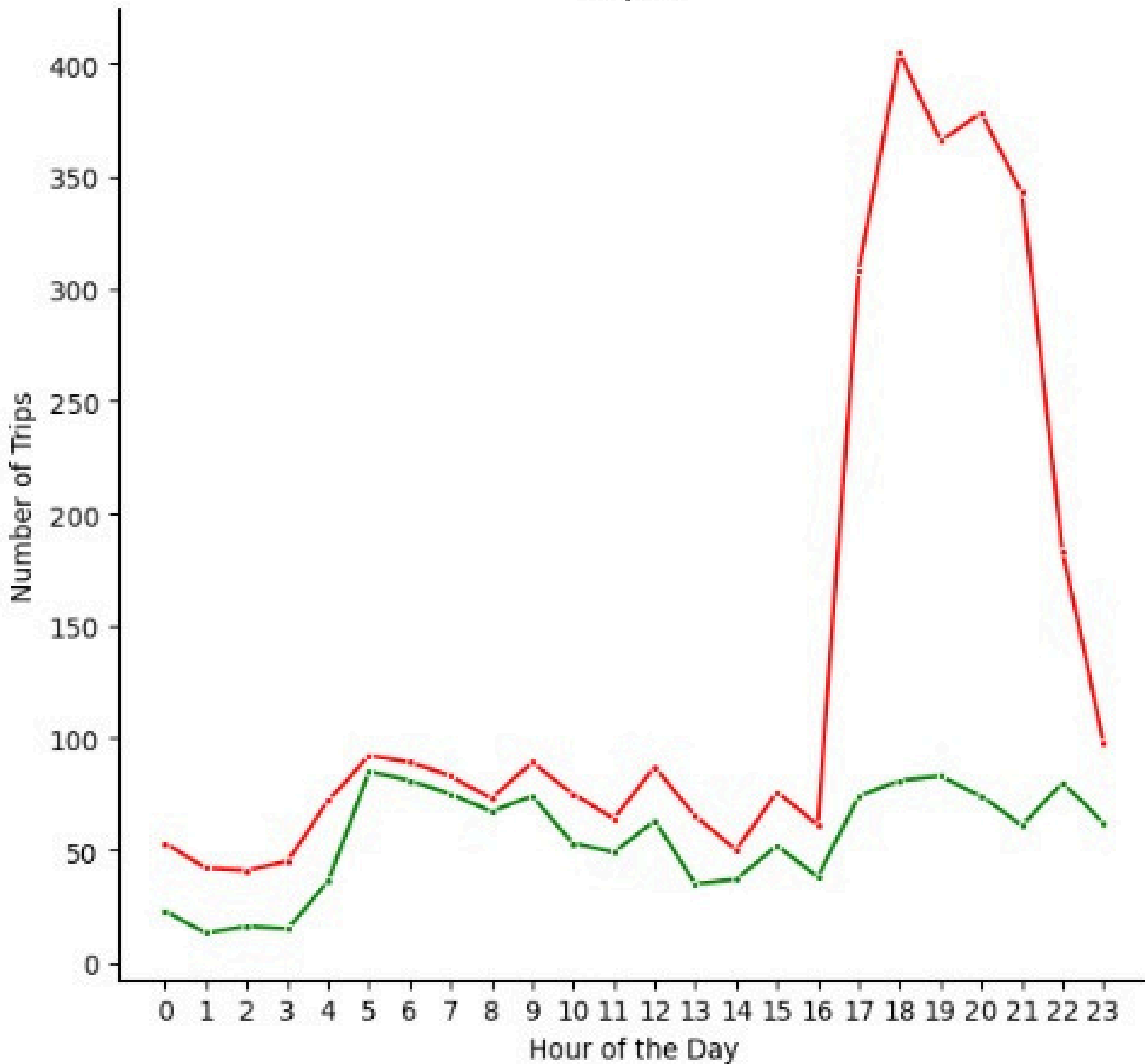
The analysis reveals a clear bimodal distribution with two distinct peak periods. Morning rush shows sharp spike between 5-9 AM, while evening rush demonstrates prolonged demand from 5-10 PM. These patterns directly correlate with typical commuting and travel behaviors.



Hourly Demand vs. Supply Gap by Pickup Point

Airport

City



- Demand (All Requests)
- Supply (Completed Trips)

Gap 1: Morning Cancellations

Problem

High cancellation rates from city to airport

Drivers unwilling to take unprofitable trips

Empty return journeys reduce driver earnings

VS

Solution

Implement morning airport bonus incentives

Show potential follow-up fares to drivers

Impose stricter cancellation penalties during peak

Gap 2: Evening Car Shortage

Problem

No cars available at airport during evening

High flight arrivals create demand surge

Insufficient drivers positioned at airport terminals

VS

Solution

Implement surge pricing specifically at airport

Schedule fleet positioning before evening rush

Offer paid wait times for airport queue

Gap Summary

Time Period	Pickup Point	Problem Type	Status	Root Cause
Morning 5-9AM	City	High Supply Low Intent	Cancelled	Driver Profitability
Evening 5-10PM	Airport	High Demand Low Supply	No Cars Available	Supply Shortage

Critical Period Analysis Overview

Two distinct problems require targeted solutions: Morning period shows high supply with low driver intent due to profitability concerns, while evening period demonstrates genuine supply shortage during peak passenger demand at airport locations requiring strategic fleet positioning.

Strategic Recommendations for Implementation

Morning Solutions

- Morning Airport Bonus incentives
- Show potential follow-up fares
- Reduce driver uncertainty
- Implement stricter cancellation penalties

Evening Solutions

- Surge pricing at airport
- Schedule fleet positioning
- Paid wait times
- Notify drivers before rush

Implementation Plan

- Pilot program testing
- Performance monitoring
- Driver feedback integration
- Revenue impact assessment