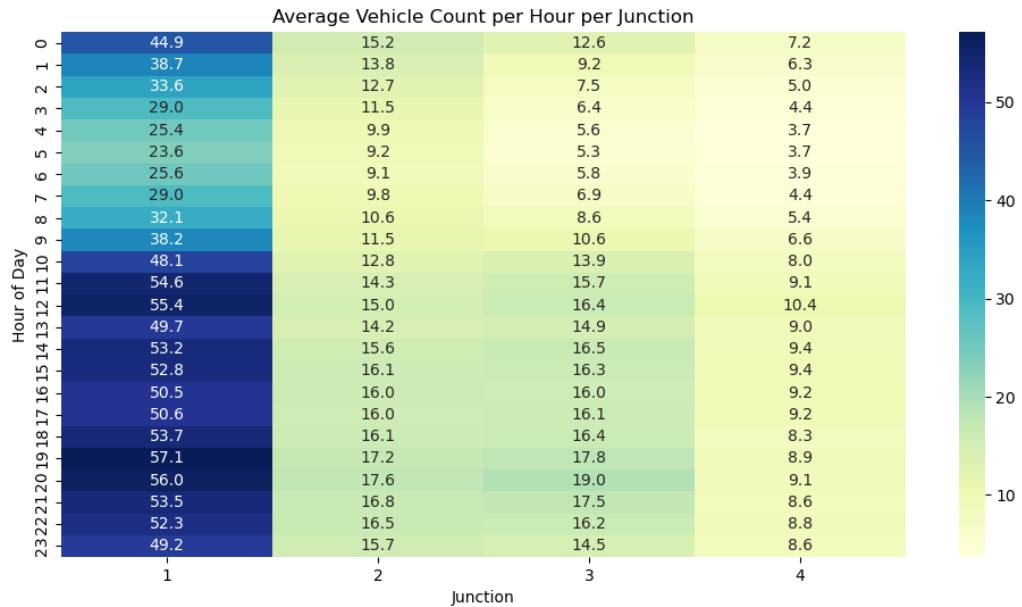
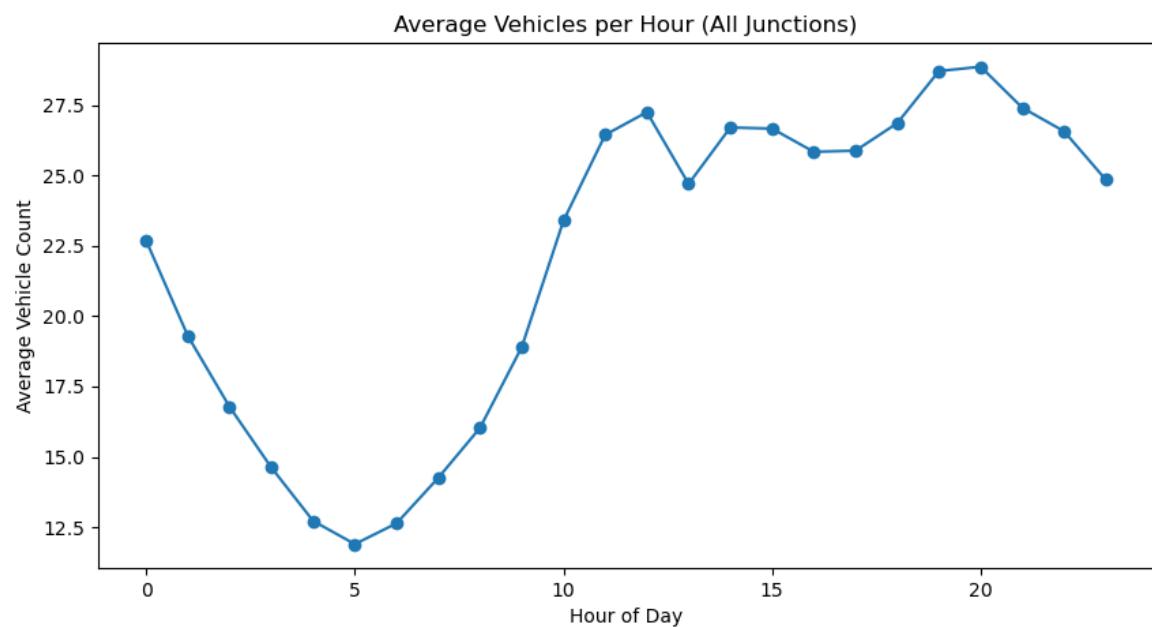


Peak Hour Traffic Analysis Report

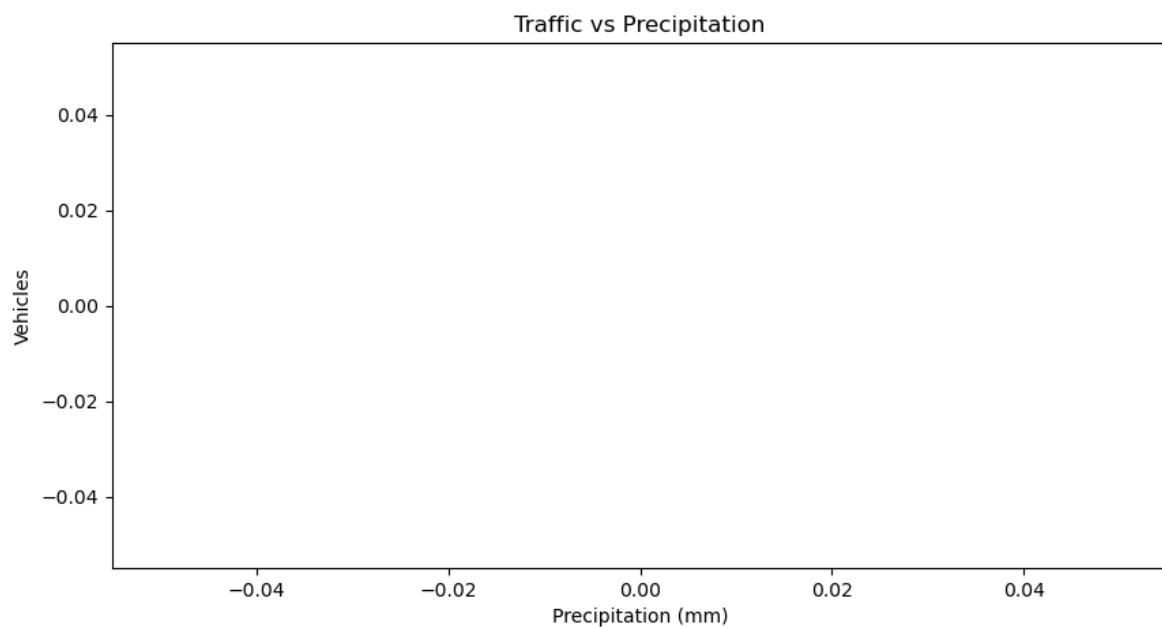
This report identifies peak traffic hours and patterns for Uber traffic data, analyzing hourly congestion, external factors, and providing actionable recommendations for traffic management.



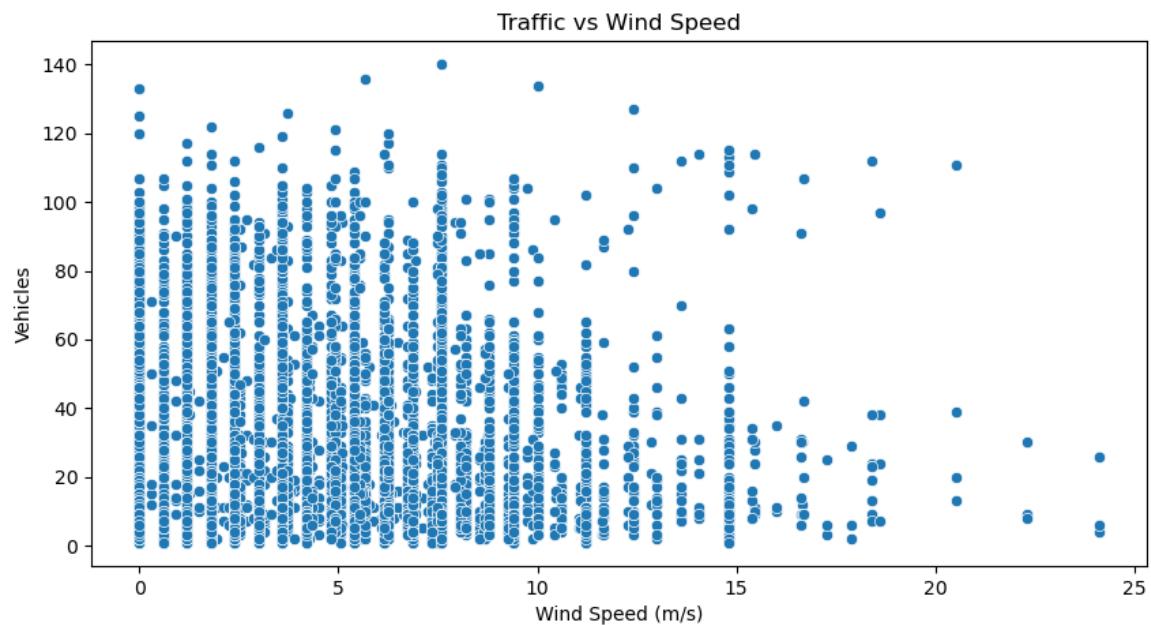
Average Vehicle Count per Hour per Junction: Peak traffic hours are generally 8-10 AM and 5-7 PM.



Average Vehicles per Hour (All Junctions): Traffic follows a bimodal pattern with morning and evening peaks.



Traffic vs Precipitation: Increased precipitation correlates with higher congestion at several junctions.



Traffic vs Wind Speed: Higher wind speeds do not significantly reduce vehicle counts for most junctions.

Summary Recommendations

1. Peak Hour Management: Target 8-10 AM and 5-7 PM for vehicle allocation and traffic mitigation.
2. Weekday vs Weekend Strategy: Adjust surge pricing and fleet deployment accordingly.
3. Weather-aware Operations: Incorporate rain and extreme weather data into demand prediction models.
4. Junction-specific Measures: Identify consistently congested junctions for focused interventions.
5. Monthly Planning: Prepare for holiday-season spikes to reduce rider wait times.