

# UBER LYFT ANALYSIS

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ridester

# INTRODUCTION

**The dataset comprises a comprehensive collection of attributes capturing various facets of ride-share operations (Uber & Lyft)**

**The dataset covers a specific timeframe, documenting rides over a particular period, allowing for temporal analysis and trend identification.**

**Explore and comprehend the trends and patterns in ride-share usage in the Boston area, particularly between Uber and Lyft services.**

# **BUSINESS ISSUE**

**Competitive Analysis**

**Customer Behaviour and Preference**

**Impact of External Factors**

**Pricing Strategy**

**Operational Improvements**

**Strategic Marketing**

**Service Enhancement**

# **OBJECTIVE**

**Identify Influential Factors**

**Explore User Behaviour**

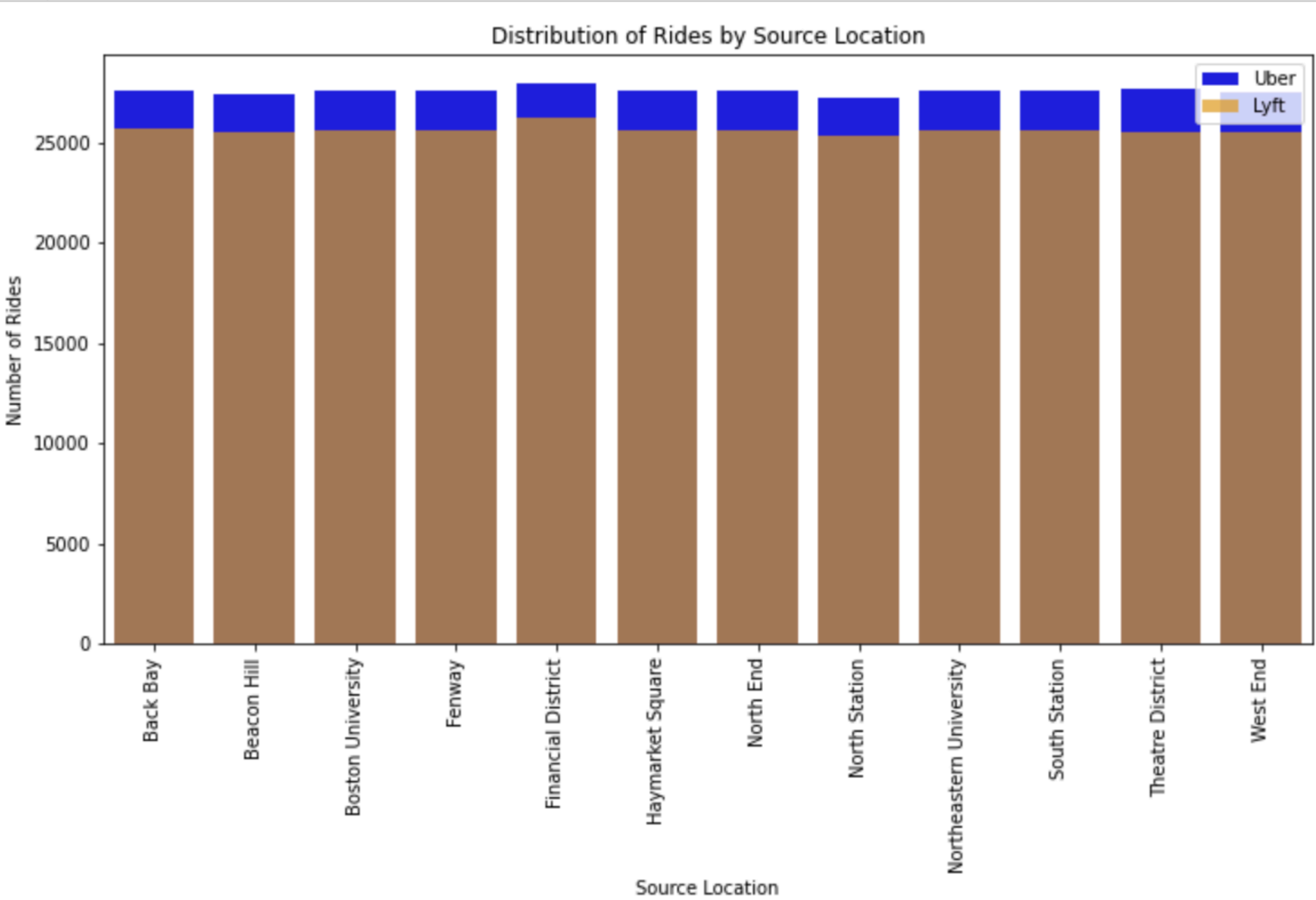
**Model Building and Selection**

**Feature Importance Analysis**

**Hypothesis Testing**

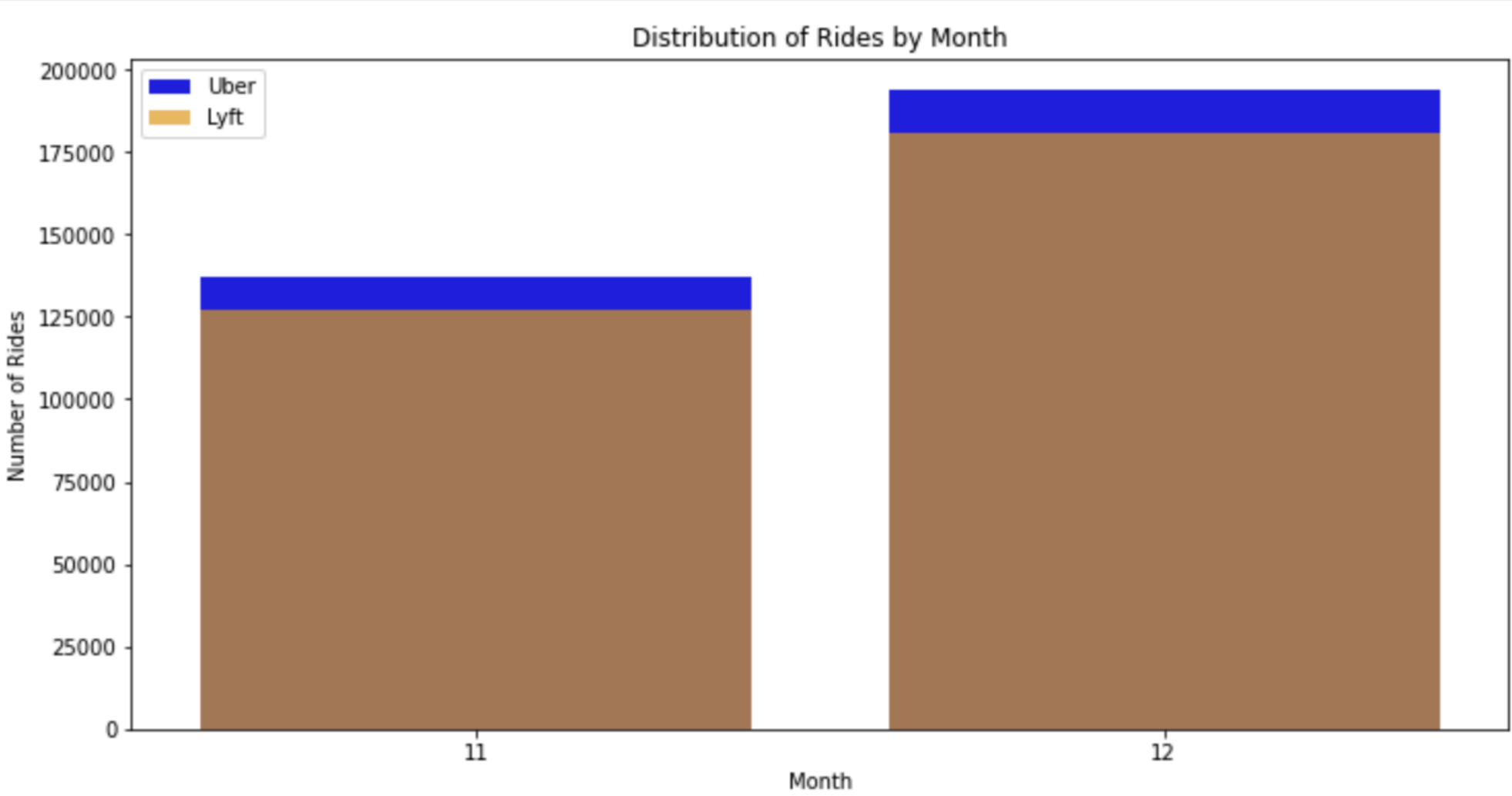
**Provide Insights**

# VISUALISATION



Counting Rides by Destination Location:

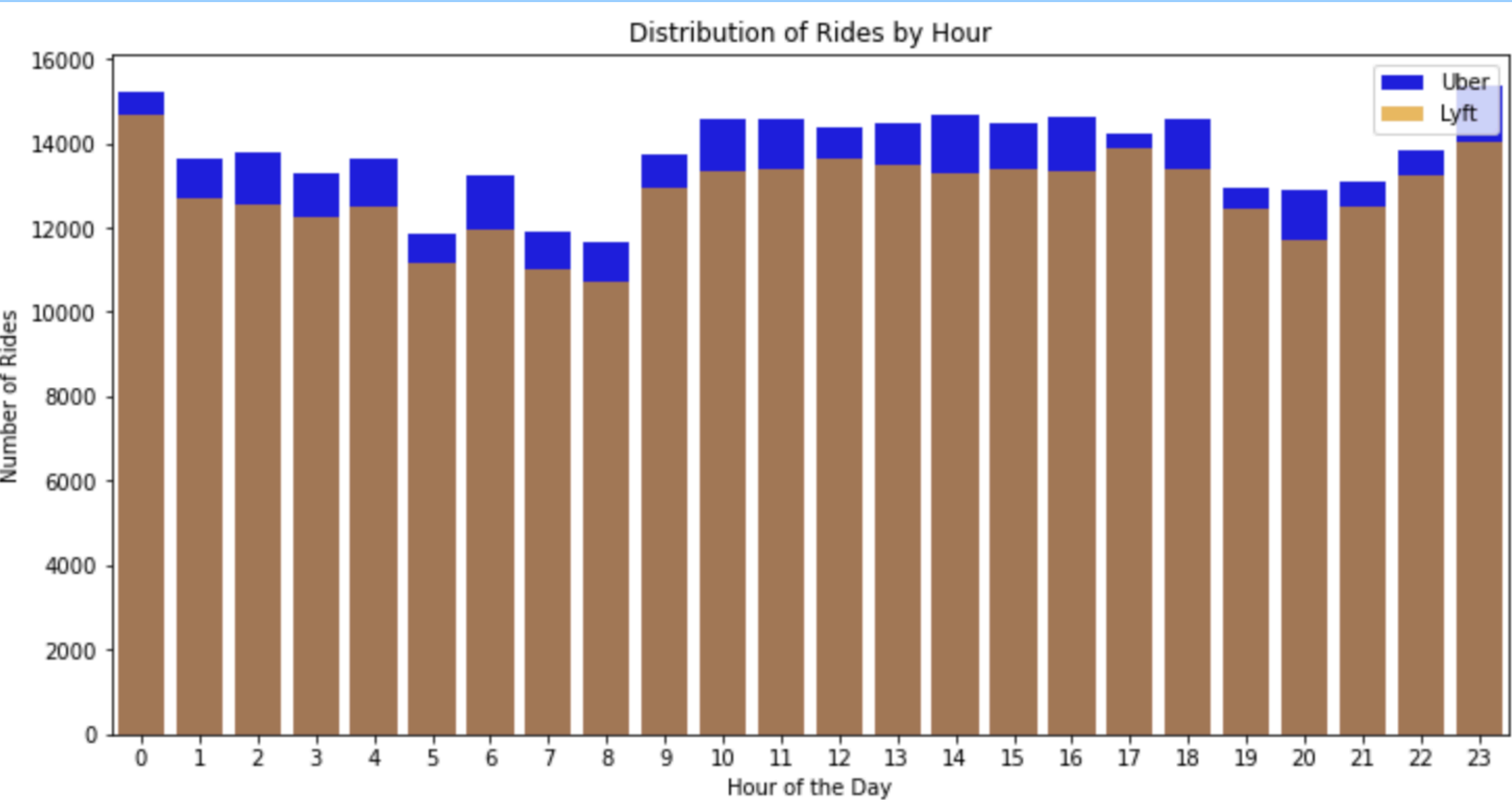
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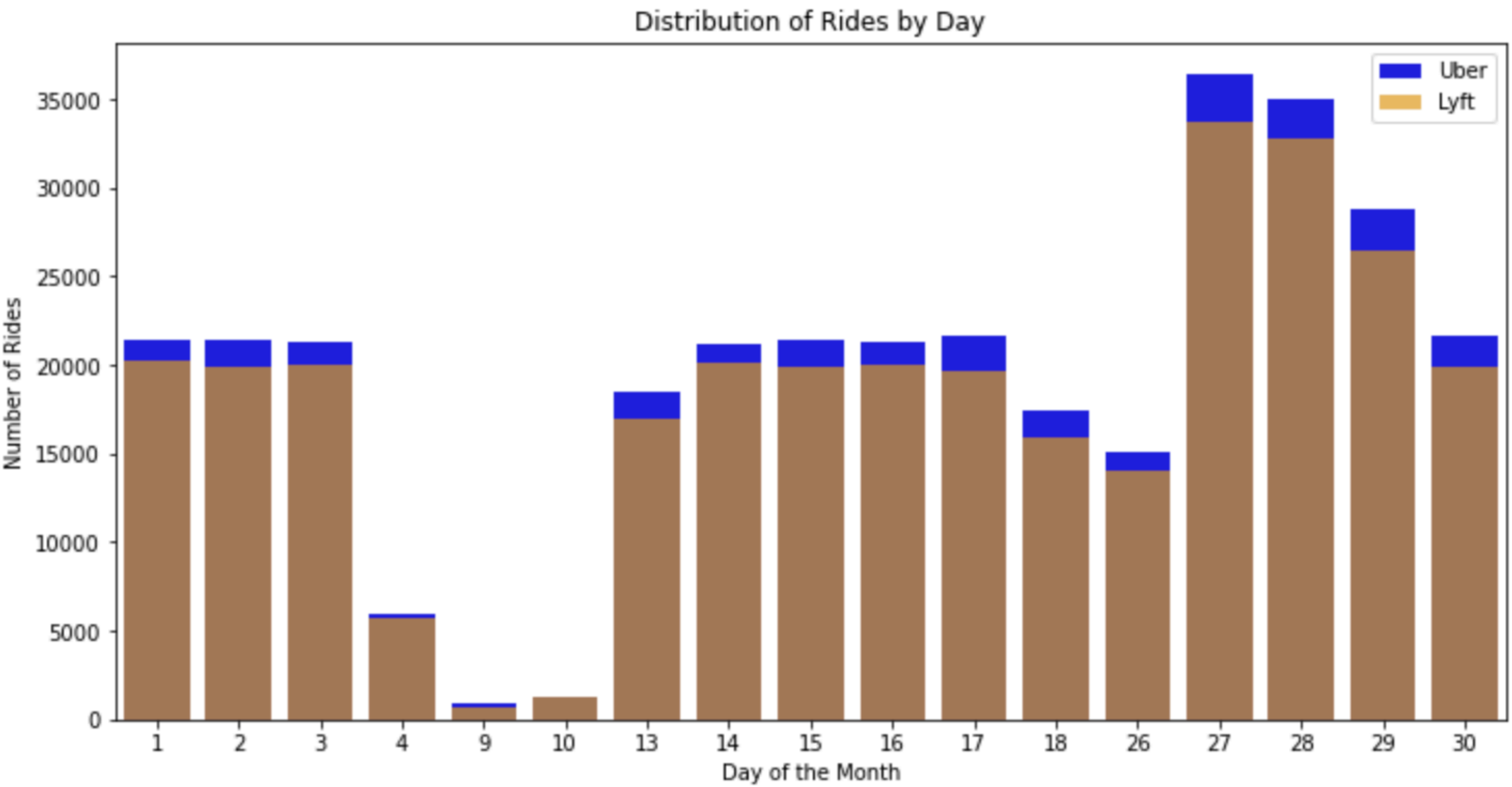
Counting Rides by Source Location:



# VISUALISATION

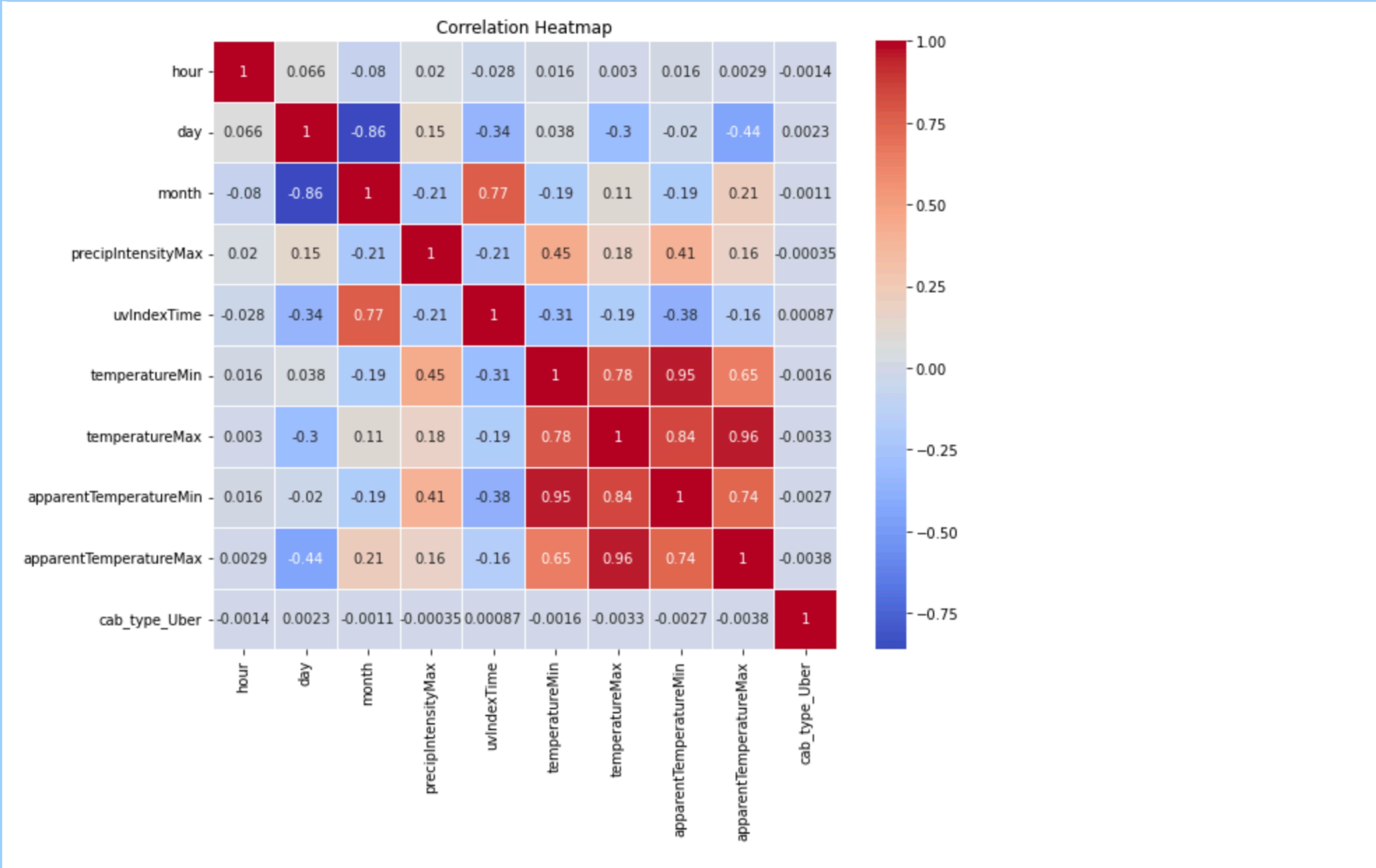


Counting rides by Day

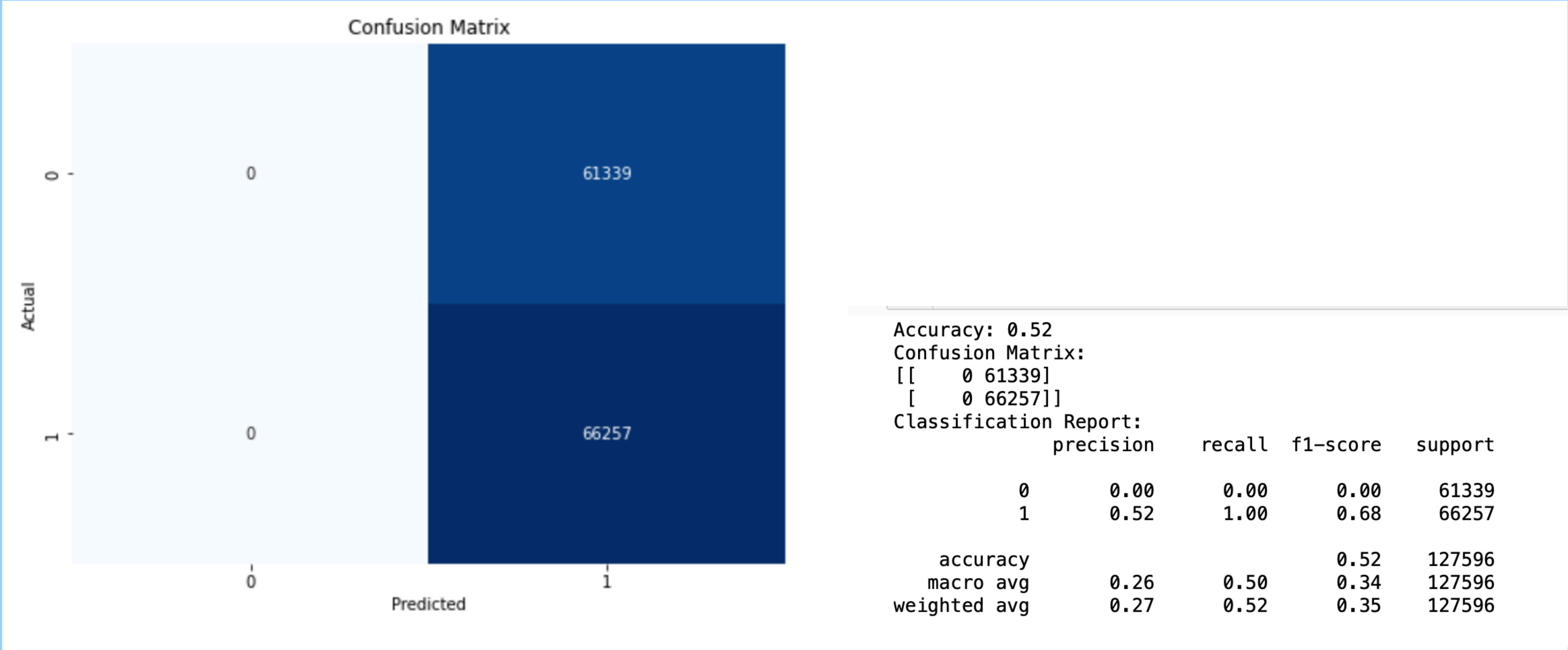


Counting Ride by Month

# CORRELATION HEAT MAP

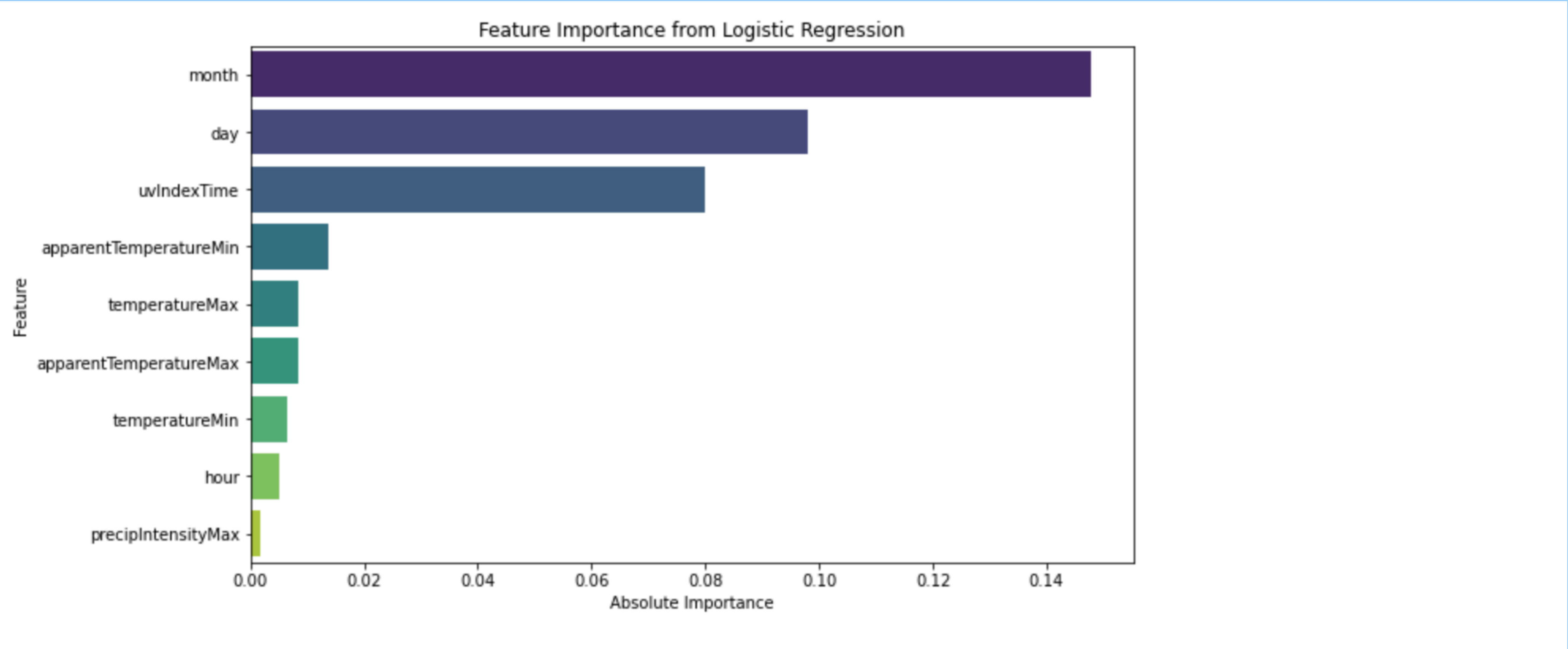


# CONFUSION MATRIX

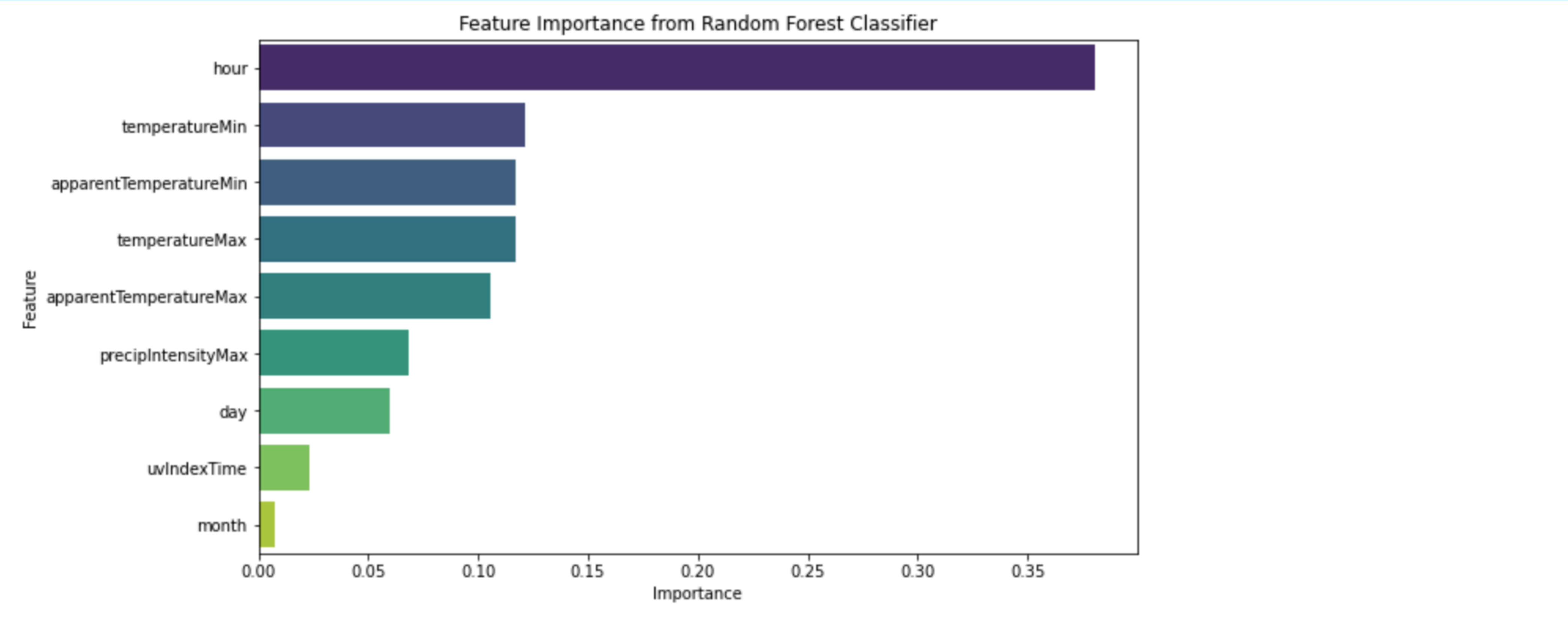




# FEATURE IMPORTANCE FROM LOGISTIC REGRESSION



# FEATURE IMPORTANCE FROM RANDOM FOREST MODEL



# CONCLUSION

**Uber exhibits slightly higher usage compared to Lyft across hourly, daily, and monthly patterns.**

**Monthly variations suggest potential seasonality impacting ride choice.**

**Seasonal changes, marketing initiatives, and user behaviours might influence the choice between services.**

**Logistic Regression, Highlighted the significance of the month feature but may have limitations in capturing complex relationships.**

**Random Forest, Offered insights into feature importance and potentially better prediction accuracy due to its ability to handle complex interactions.**

**Seeking additional data sources to enhance insights and model performance.**