

# TLC Trip Record Data Yellow Taxi



# Introduction

The New York City Taxi and Limousine Commission (TLC), Over 200,000 TLC licensees complete approximately 1,000,000 trips each day. According to TLC the data it is recorded since 2009 - 2021

preprocess



# Purpose of the project



1

Predict the fare amount  
of the ride.



2

Who effects on the fare  
amount



3

Visiualize the data



4

Visiualize the features

# Chosen year and month

In this project the prediction and visualization will be  
on the dataset of  
October 2019

# Who effects on the target?



1

Distance



2

Taxi car size



3

Peak hours



4

Rate code id



5

Peak days



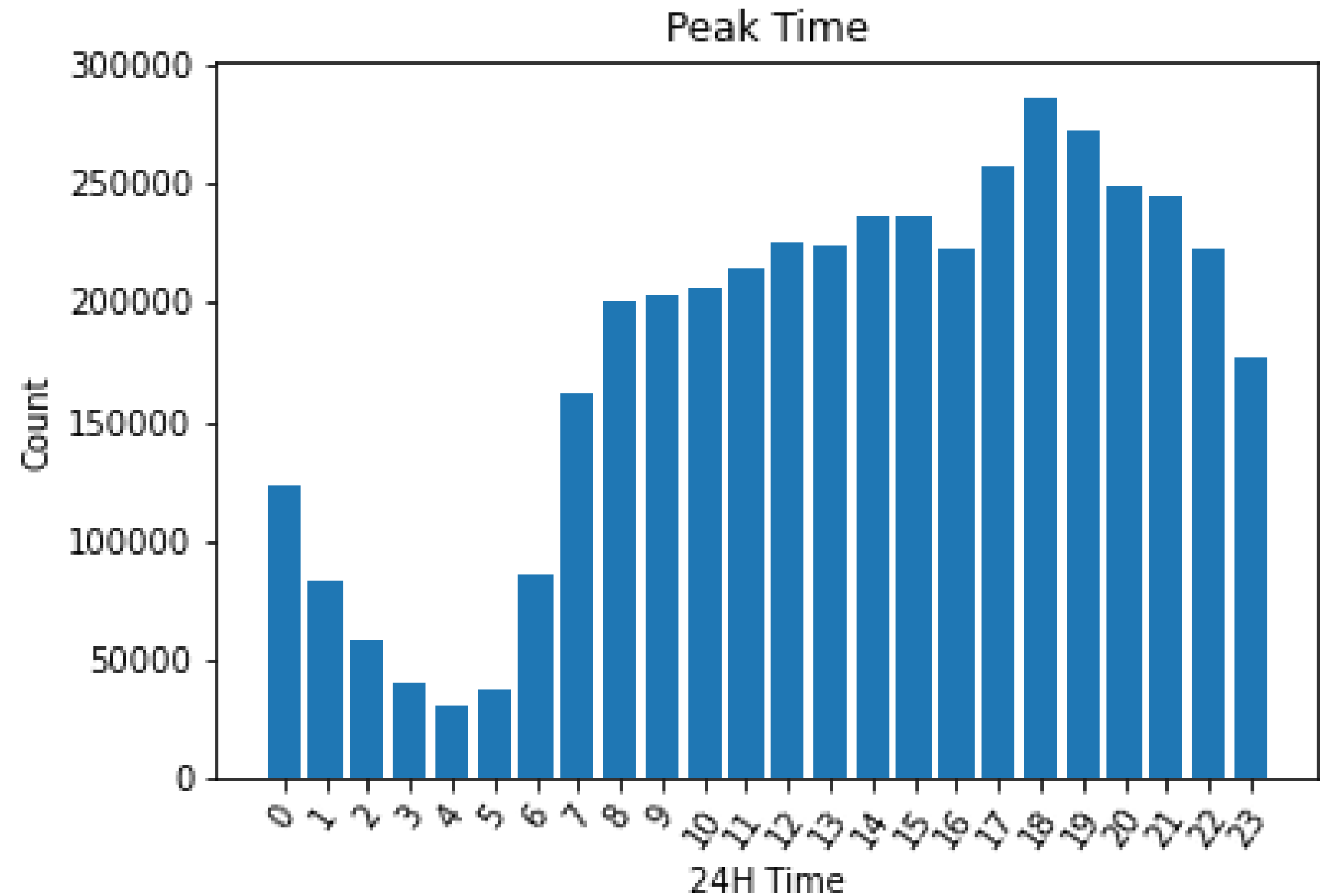
6

Duration

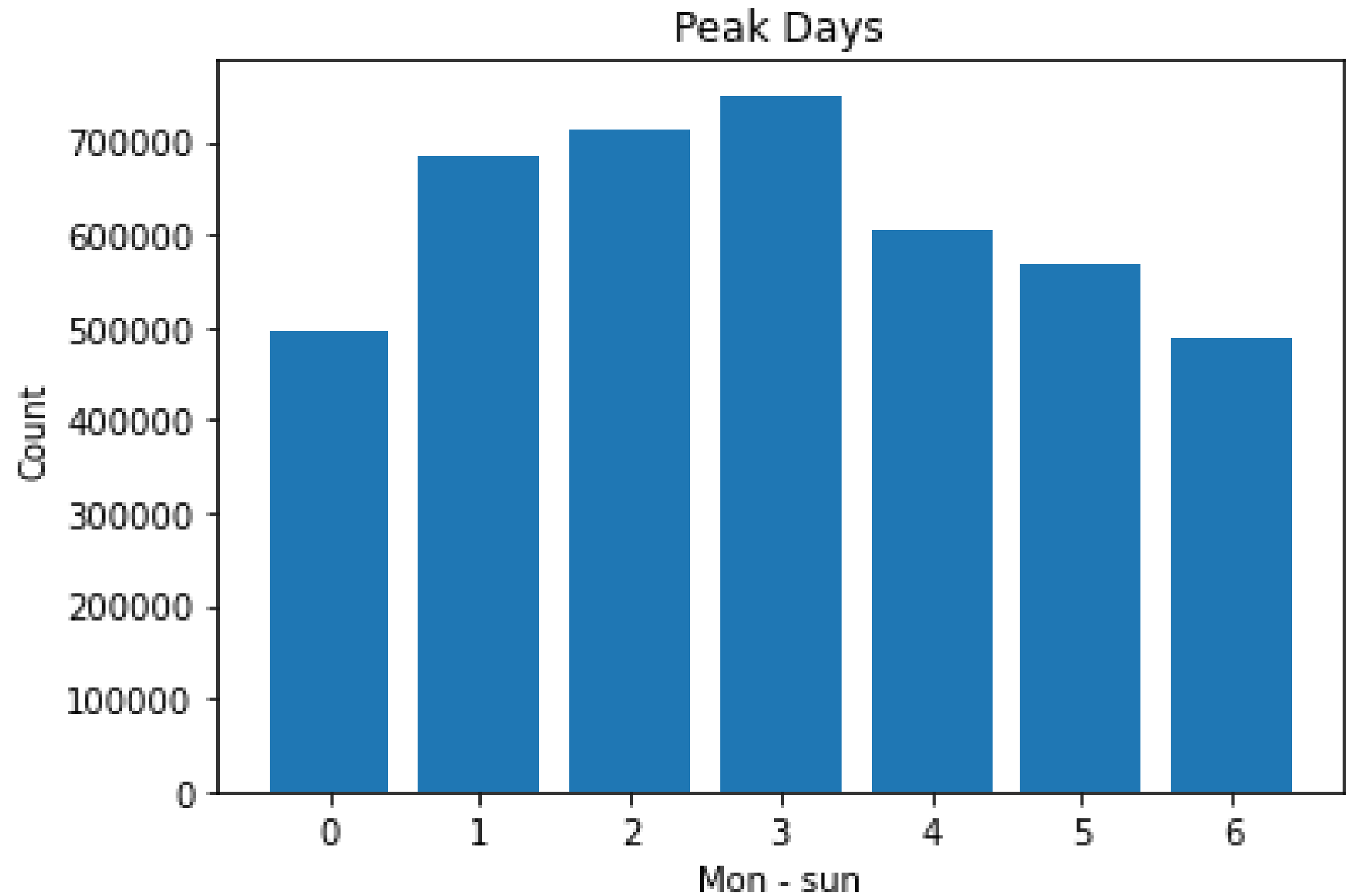
# Correlation between distance and fare amount



Whata are  
the peak  
hours?



**Whata are  
the peak  
days?**





# Data model

# The Followed benchmarks in choosing the best model

Baseline feature set:

~.874  $R^2$

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Add Category features (RatecodeID):

~.894  $R^2$

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Add Category features (VendorID):

~.894  $R^2$

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Add Several polynomial transforms:

~.897  $R^2$

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Add Several interaction terms:

~.911  $R^2$

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Add Standard-scaling Features terms:

~.911  $R^2$