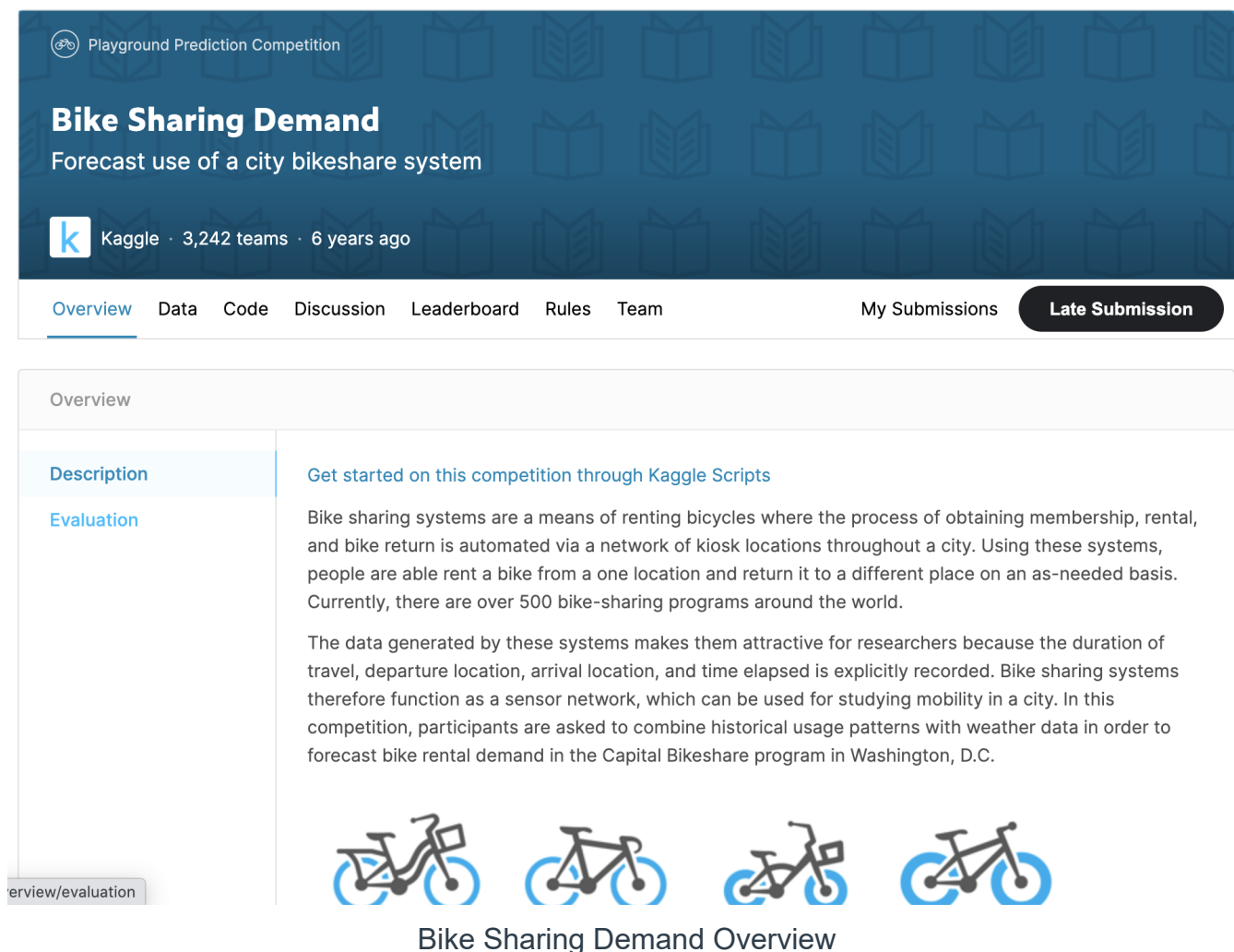


## Project Overview

In this project, you'll use the [AutoGluon](#) library to train several models for the [Bike Sharing Demand](#) competition in Kaggle. You will be using [Tabular Prediction](#) to fit data from CSV files provided by the competition. This project will demonstrate your ability to use AutoGluon to train several iterations of models and record your personal optimization of the problem.

Bike-sharing demand is highly relevant to related problems companies encounter, such as Uber, Lyft, and DoorDash. Predicting demand not only helps businesses prepare for spikes in their services but also improves customer experience by limiting delays.

In the end, you will have submitted several entries to the competition and achieved a rank within Kaggle. You will also complete a report of your findings that you can share publicly on Kaggle or your personal page, providing a way to showcase your work.



Playground Prediction Competition

### Bike Sharing Demand

Forecast use of a city bikeshare system

Kaggle · 3,242 teams · 6 years ago

[Overview](#) [Data](#) [Code](#) [Discussion](#) [Leaderboard](#) [Rules](#) [Team](#) [My Submissions](#) [Late Submission](#)

Overview





**Description**

**Evaluation**

[Get started on this competition through Kaggle Scripts](#)

Bike sharing systems are a means of renting bicycles where the process of obtaining membership, rental, and bike return is automated via a network of kiosk locations throughout a city. Using these systems, people are able to rent a bike from one location and return it to a different place on an as-needed basis. Currently, there are over 500 bike-sharing programs around the world.

The data generated by these systems makes them attractive for researchers because the duration of travel, departure location, arrival location, and time elapsed is explicitly recorded. Bike sharing systems therefore function as a sensor network, which can be used for studying mobility in a city. In this competition, participants are asked to combine historical usage patterns with weather data in order to forecast bike rental demand in the Capital Bikeshare program in Washington, D.C.

Bike Sharing Demand Overview

Name	Submitted	Wait time	Execution time	Score
submission_new_hpo.csv	2 days ago	3650 seconds	0 seconds	0.46182
Complete				
<a href="#">Jump to your position on the leaderboard</a> ▾				

You may select up to 2 submissions to be used to count towards your final leaderboard score. If 2 submissions are not selected, they will be automatically chosen based on your best submission scores on the public leaderboard. In the event that automatic selection is not suitable, manual selection instructions will be provided in the competition rules or by official forum announcement.

Your final score may not be based on the same exact subset of data as the public leaderboard, but rather a different private data subset of your full submission — your public score is only a rough indication of what your final score is.

You should thus choose submissions that will most likely be best overall, and not necessarily on the public subset.

25 submissions for <a href="#">Matt Maybeno</a>		Sort by <div>Most recent</div>		
<div>All</div> <div>Successful</div> <div>Selected</div>				
Submission and Description		Private Score	Public Score	Use for Final Score
<a href="#">submission_new_hpo.csv</a> 2 days ago by <a href="#">Matt Maybeno</a>		0.46182	0.46182	<input type="checkbox"/>

### My Submission Results

## Main Steps

Here are the main steps. We'll go over each of these in more detail on the pages that follow.

1. Project Setup
2. Complete the Jupyter Notebook
3. Complete the Competition Report
4. Standout Suggestions