

Bikespector: modeling the forecast

Data Field	Example	Explanation
Time	11 a.m.	Bike availability may differ throughout the day.
Day of week	Friday	Bike availability may differ throughout the week.
Date	12/13/2019	We may need to consider an increasing number of shared bikes.
Season	12/13	We can probably find a seasonal pattern in bike availability throughout the year.
Latitude	50°56'25.8"N	The north - south position of an available bike on a map.
Longitude	6°56'28.3"E	The east - west position of an available bike on a map.

The nextbike API doesn't offer any historical data, which is why the "Date" and "Season" fields couldn't reasonably be incorporated into the prototype. Collecting the API data for at least one year would most probably increase precision significantly.