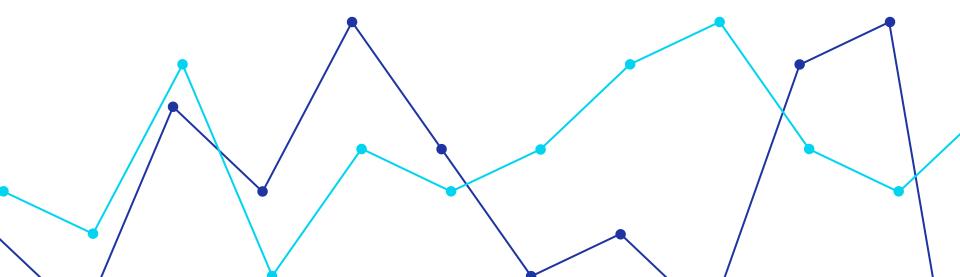
Helsinki City Bikes

Mid Bootcamp Project

Heloisa Bal



Helsinki City Bikes

What?

Helsinki City Bikes is a public bicycle system in Helsinki.

Why?

High interest in biking and micro mobility in general.

Data sets



Kaggle Dataset 2018 - 2020 (3 years)



Meteorological data 2018 - 2020 (3years)

City bikes



The new city bike season has started. Registration and season passes are now available!

Buy a pass

The city bike season starts on 1 April and ends on 31 October.

Please note that the bike system in place in Helsinki and Espoo is different from the system used in Vantaa and you cannot mix bikes from the two systems.

The pass for the whole season for Helsinki and Espoo costs EUR 35, for Vantaa EUR 30.

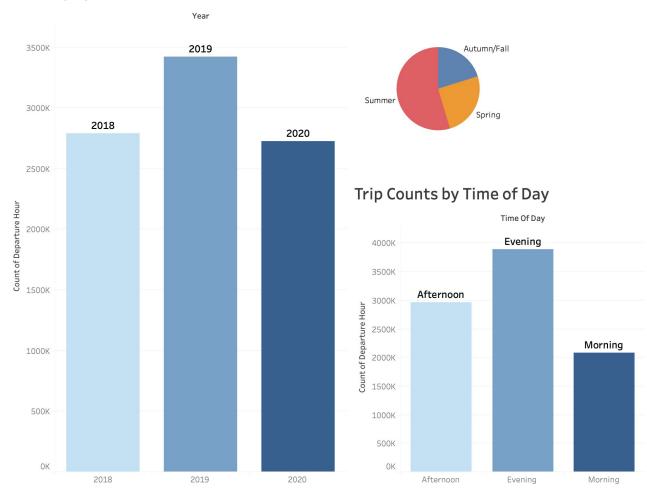
Start by selecting area



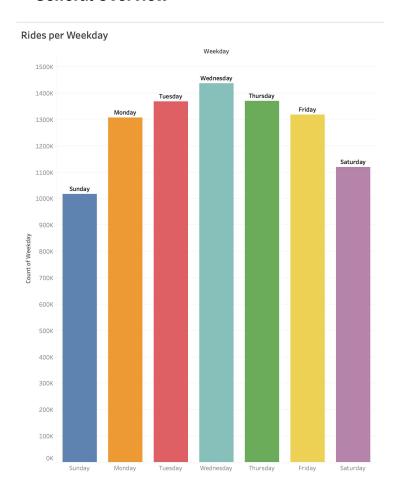


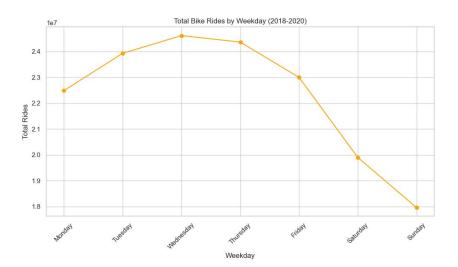
General Overview Bike Trips per Year

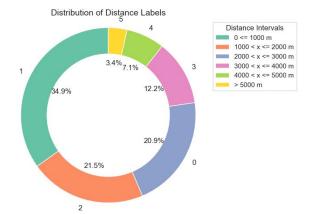
Trips by Season



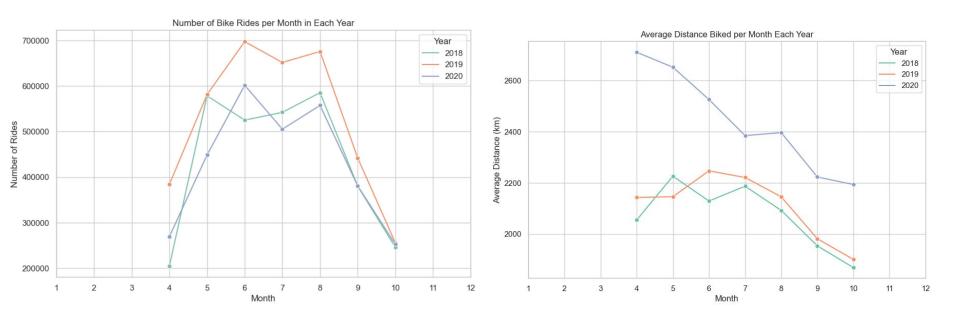
General Overview



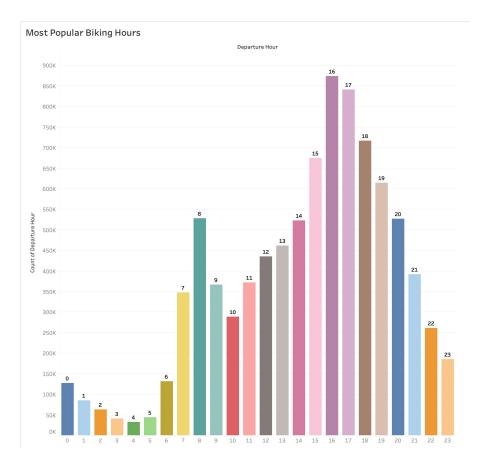


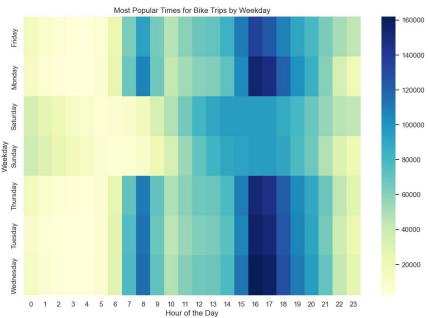


Monthly bike rides & Monthly average bike distance

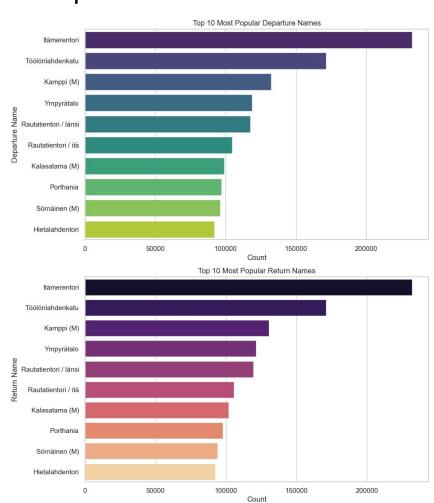


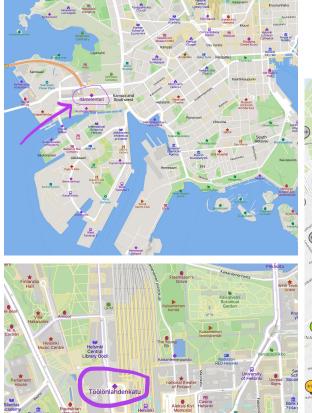
Most popular biking hours

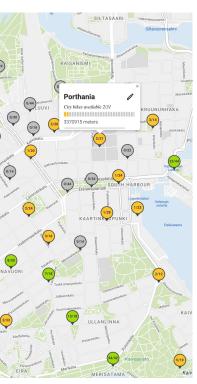




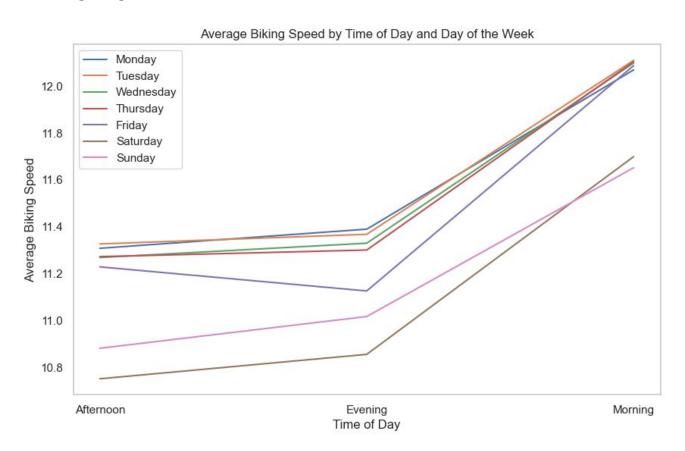
Popular Docks



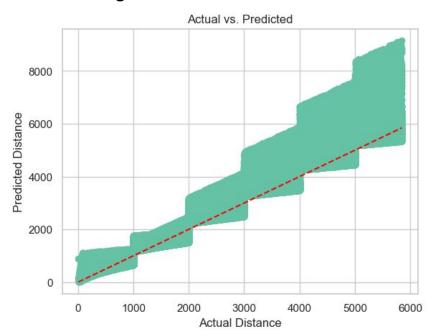




Most interesting insight!



Model Building

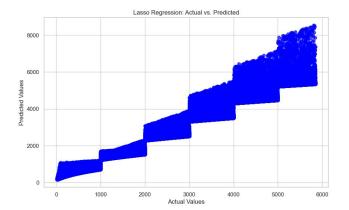


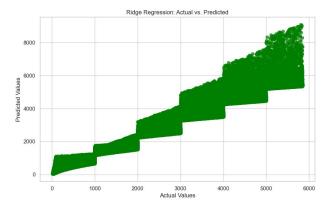
R-squared: 0.9687

Mean Squared Error: 51149.9066 Root Mean Squared Error: 226.1635



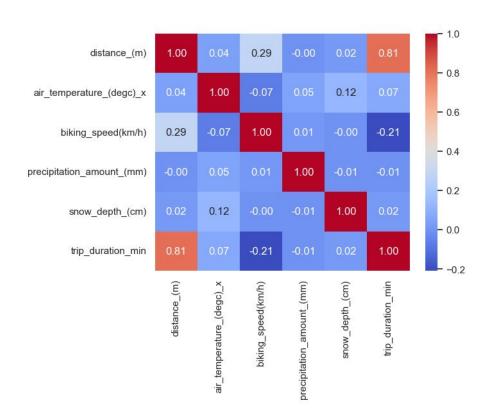
2528.74658203])

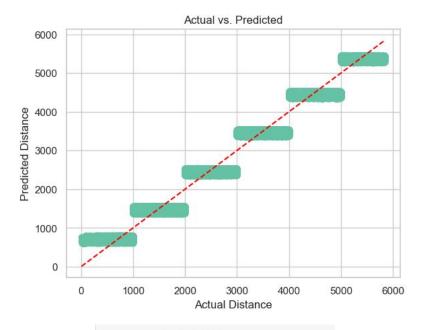




Model: lasso, train R2: 0.9682949228117823 -- test R2: 0.9682393998914398 Model: ridge, train R2: 0.9686873425868942 -- test R2: 0.9686433169378844 Model: elastic, train R2: 0.21608410810857315 -- test R2: 0.21614102981897487

Removing variable based on colinearity





R-squared: 0.9563

Mean Squared Error: 71338.1096 Root Mean Squared Error: 267.0919

Thank you!

Questions?

