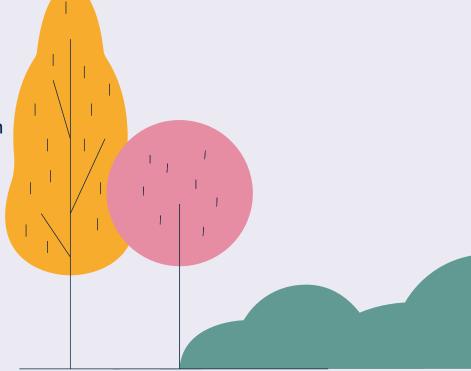
Bike sharing

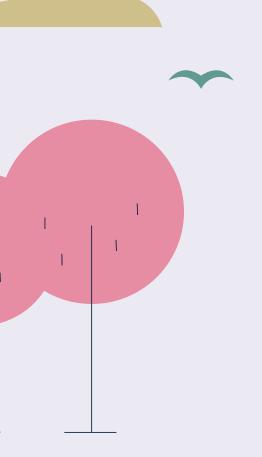


Overview

Capital Bike Sharing dataset contains information related to the bike sharing program of Washington DC for the 2011 and 2012 years. To review the data set attributes, visit the <u>data set page on UCI</u>.

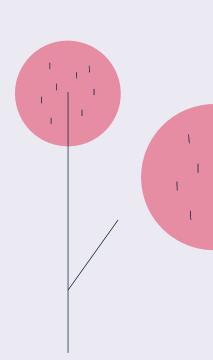






data!

The dataset contains 17 attributes, 17389 instances



Problem statements





Prediction of bike rental count hourly based on the environmental and seasonal sittings



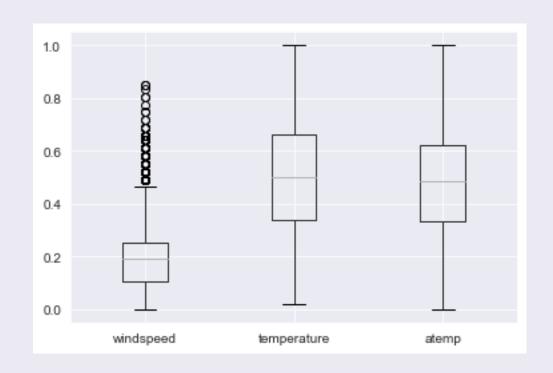
For visualize

- Bike years highest season
- Top demand hours for. Bikes
- Humidity and temperature effect on bike rental

Data cleaning

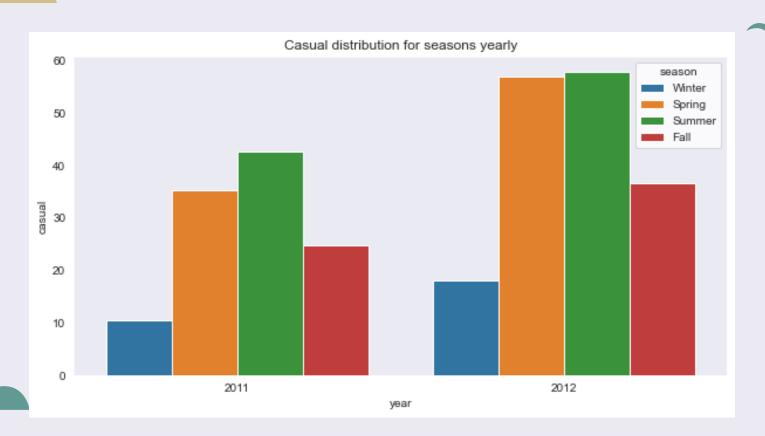
Check any outlier and handle it Check if have any inconsistent Rename column Map data nice to visualize Check Missing & duplicate data

check outlier

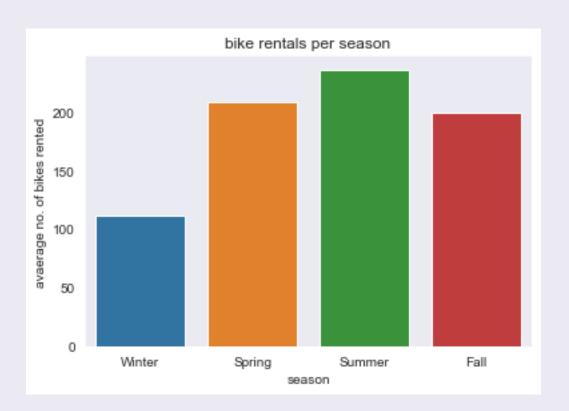




Year



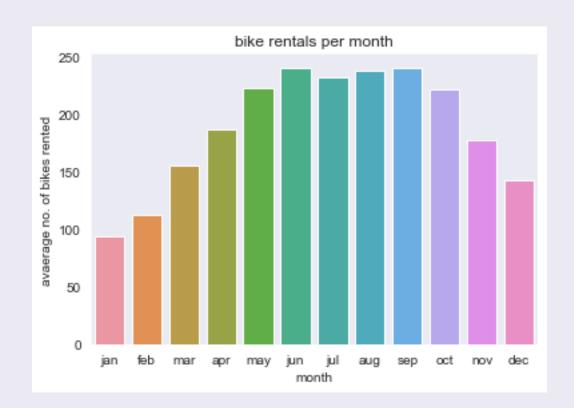
seasons







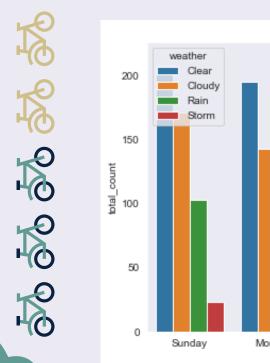


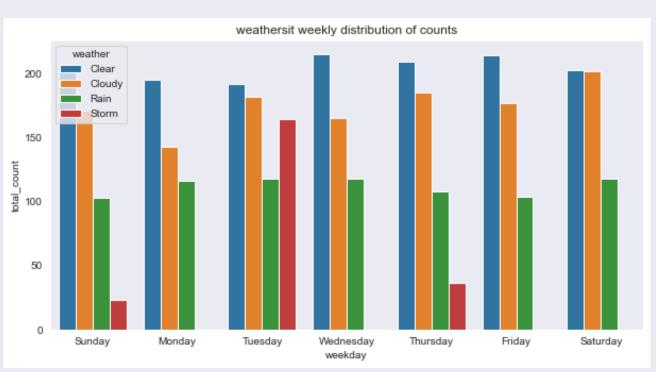




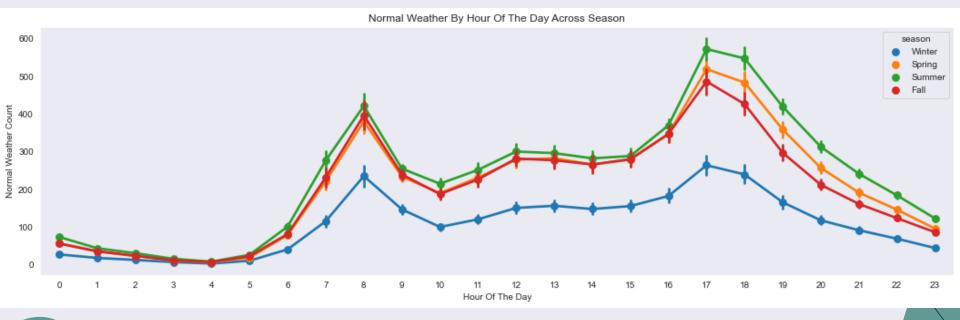


days

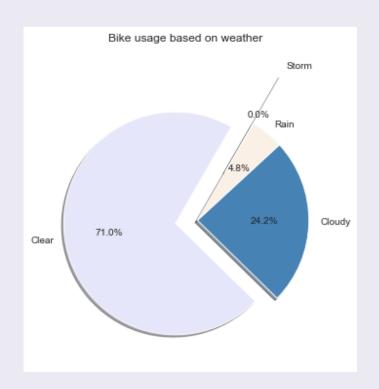




hours



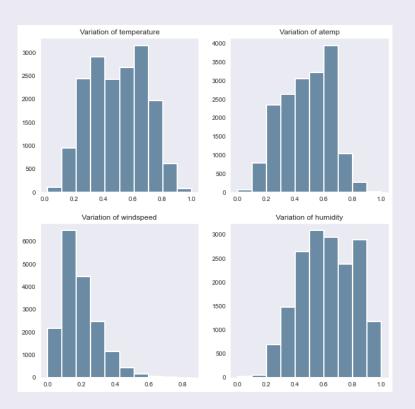
Bike usage on weather







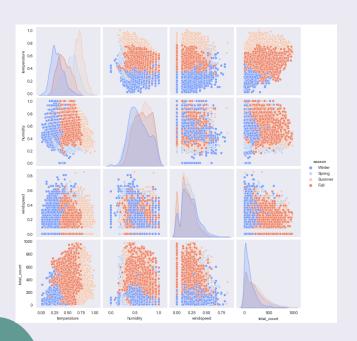




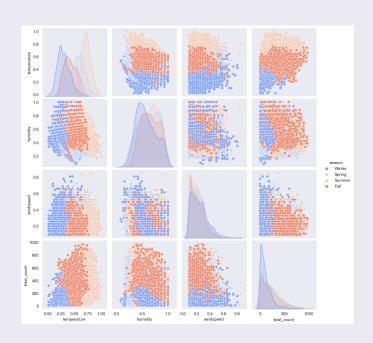




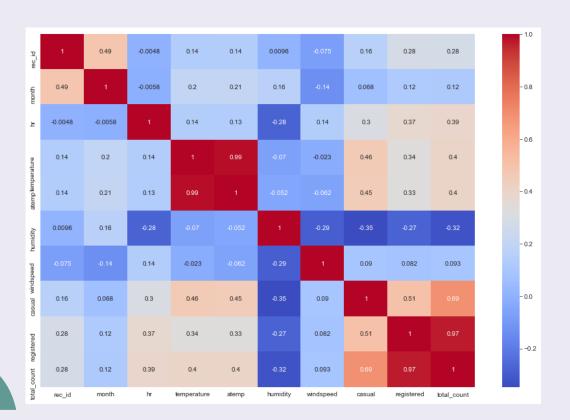
Winds speed after fill by KNN







Visualize correlation





Drop unnecessary column



Feature engineering



Hour & season
Drop first column

Fill zoro value in winds speed

by KNN neighbors value

Scaler numerical column

By standard scaler

Cross validation

By 5 Kfolds

Models

R square

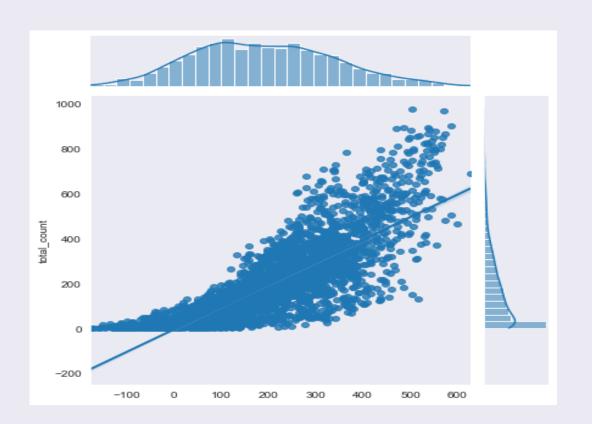
| Linear Regression | 0.69 |
|-------------------|------|
|-------------------|------|

Ridge Regression 0.69

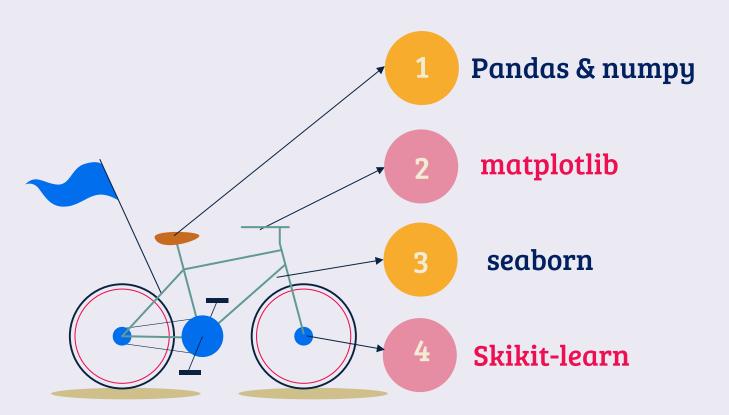
Lasso Regression 0.69

Polynomial degree (2) 0.90

Result



Tools





Our best experiences



66 Route

Mercury is the closest planet to the Sun

East Coast

Venus has a beautiful name, but it's very hot





"The best way to predict your future is to create it."



Thanks

Do you have any questions?