Seoul Bike Share

Elinor Velasquez, April 14 2021

Can we predict rented bike count in Seoul, South Korea?

Data Collection:

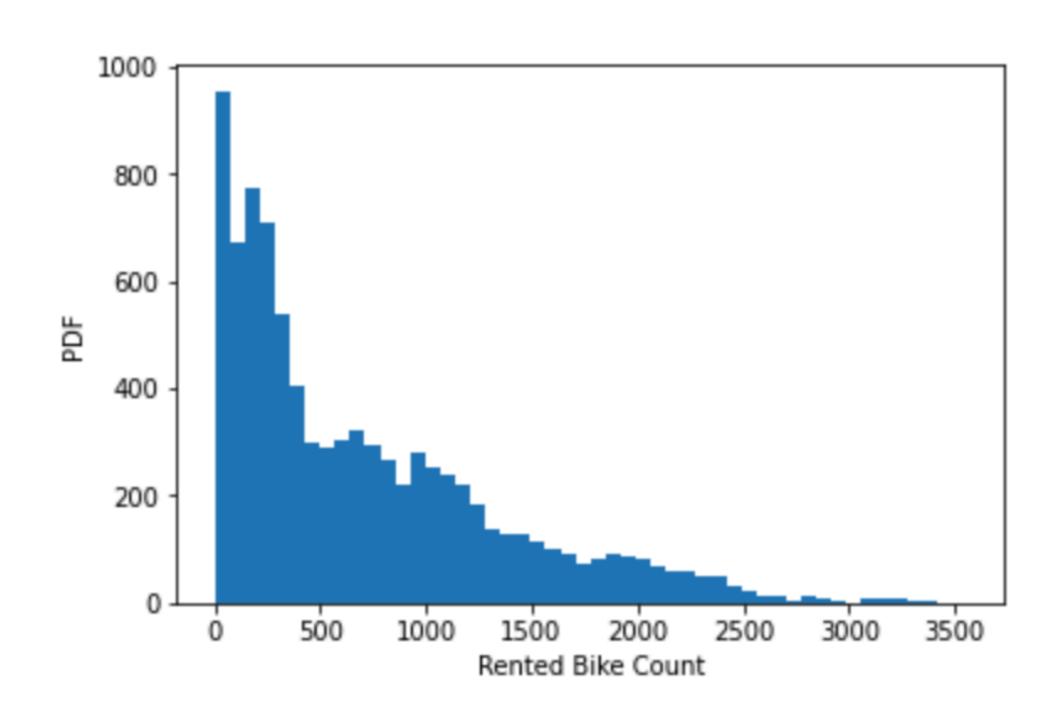
Rented Bike Share count per hour in Seoul, South Korea

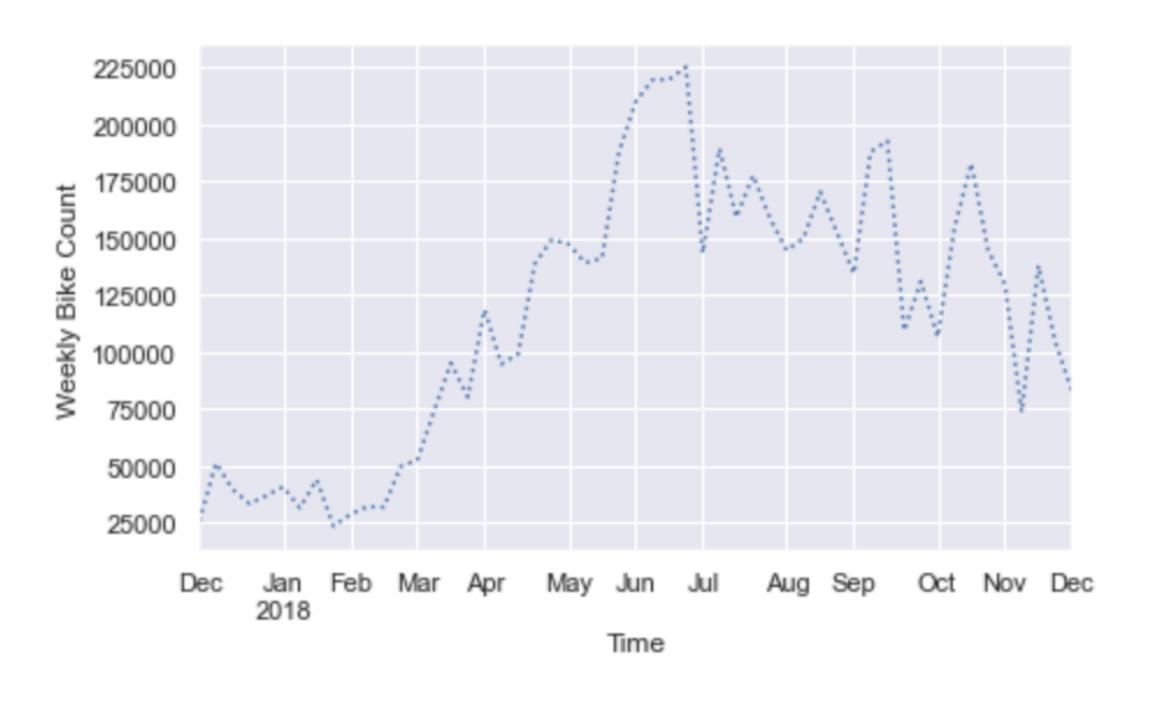
Data Retrieval:

U.C. Irvine Data Repository (Data deposited in 2020-03-01)

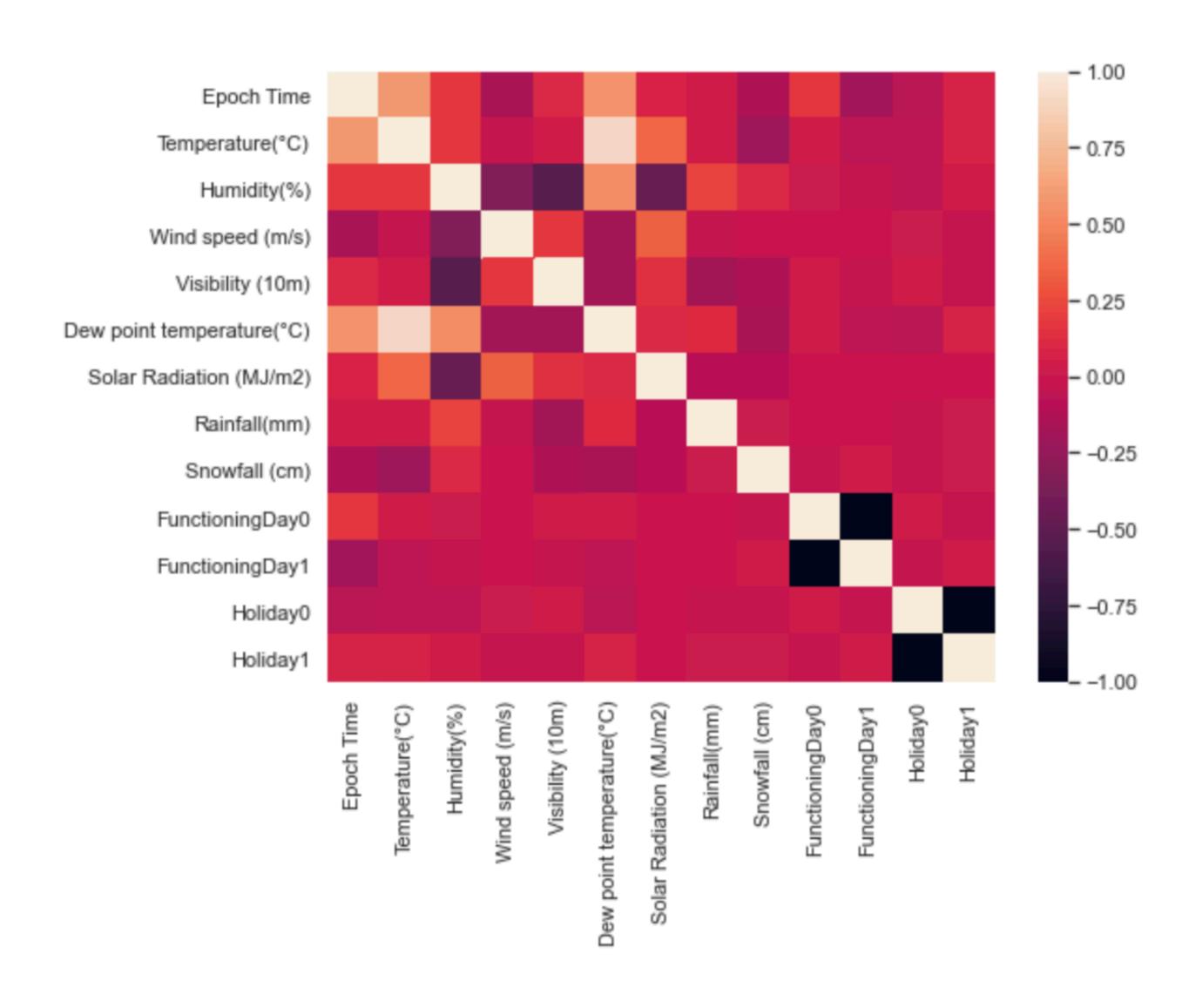


Can we predict weekly rented bike count?

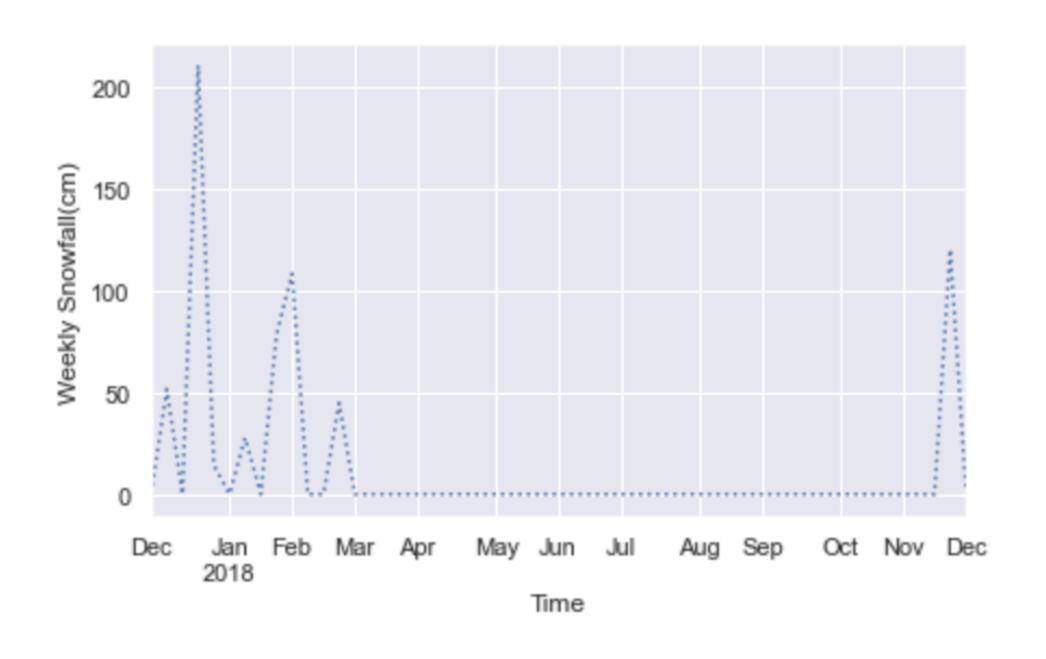


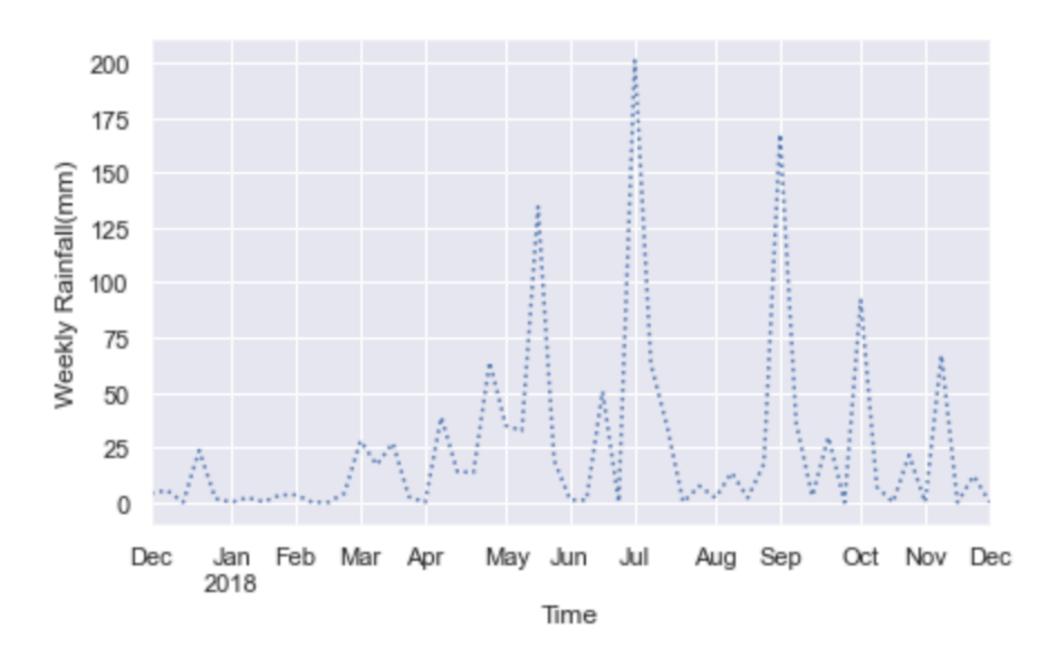


The HeatMap shows that several features are correlated

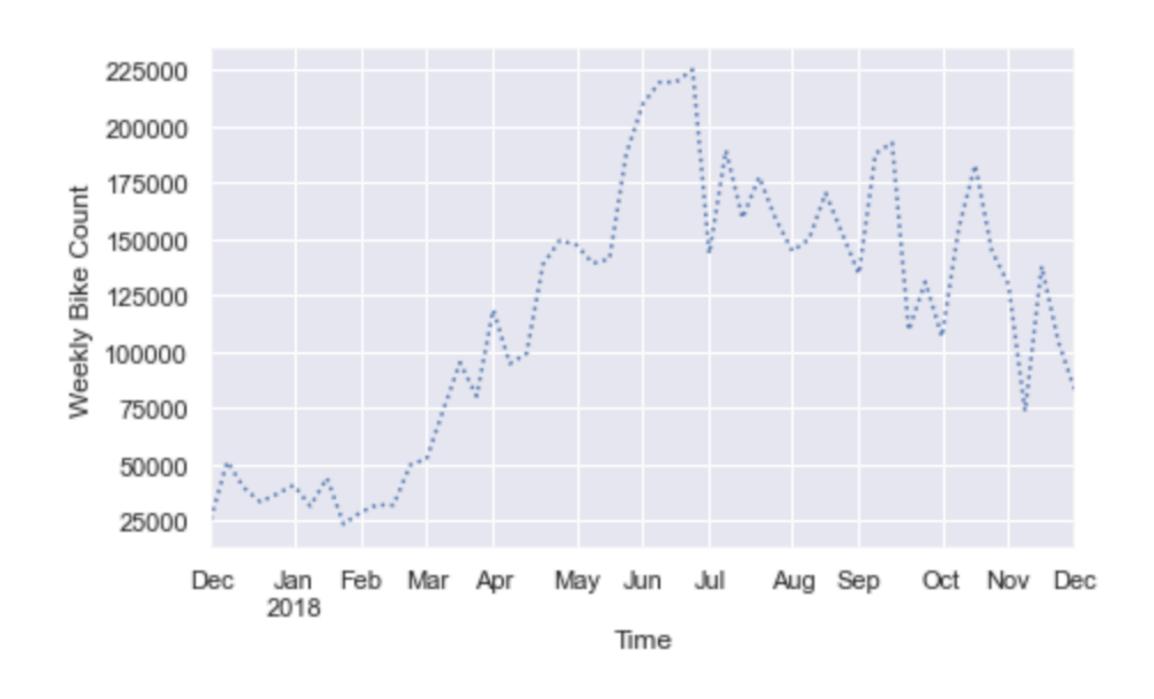


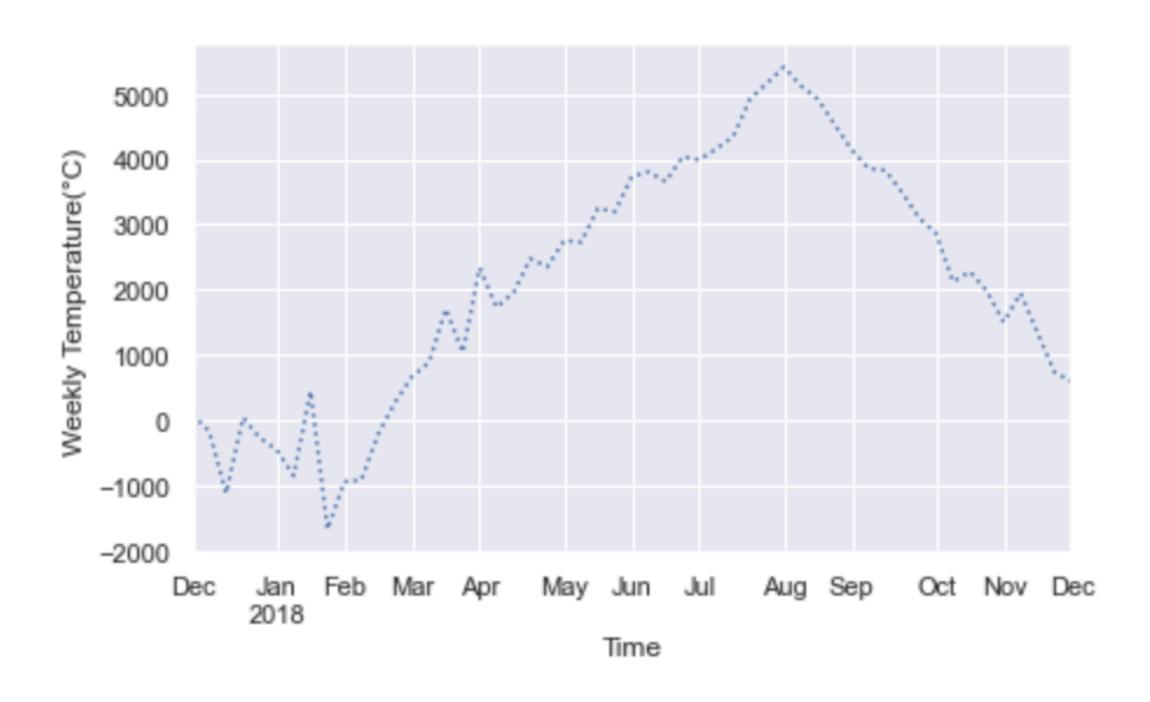
Rainfall and Snowfall in Seoul is a constant



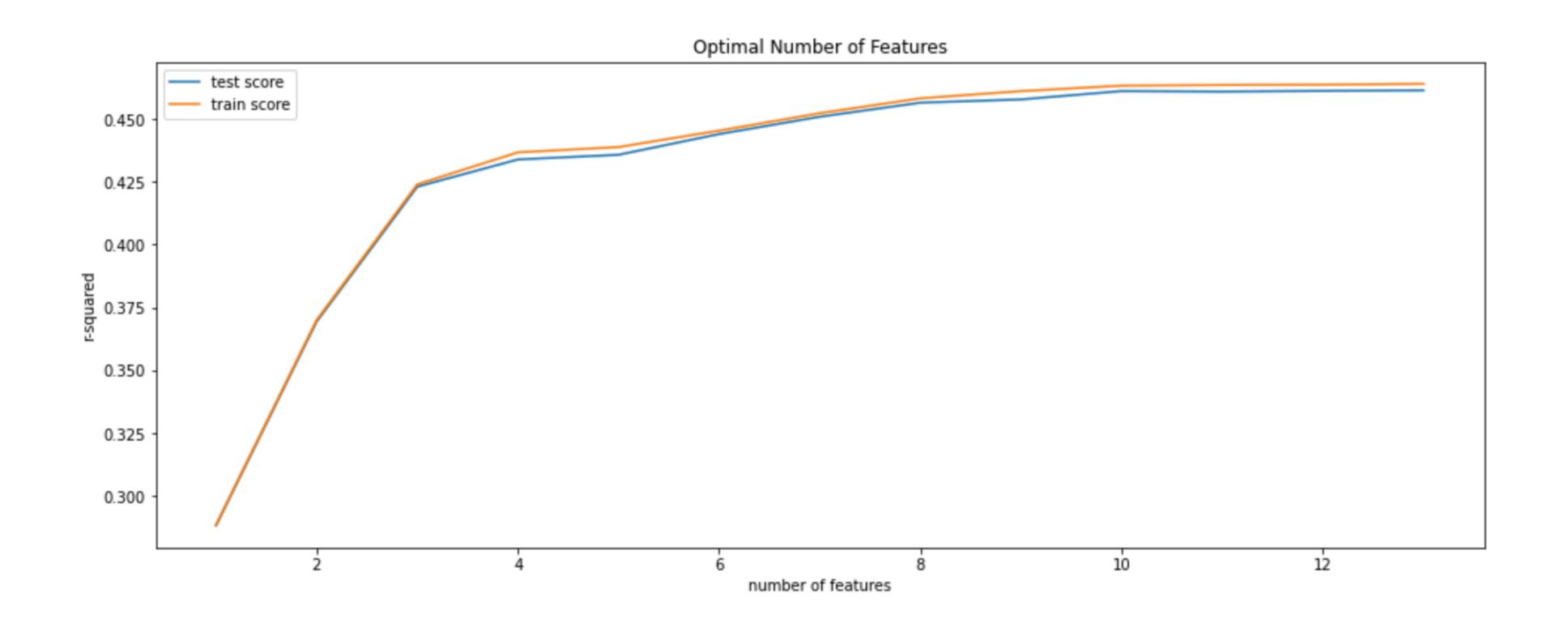


Weekly Bike Rental corresponds to Weekly Temperature

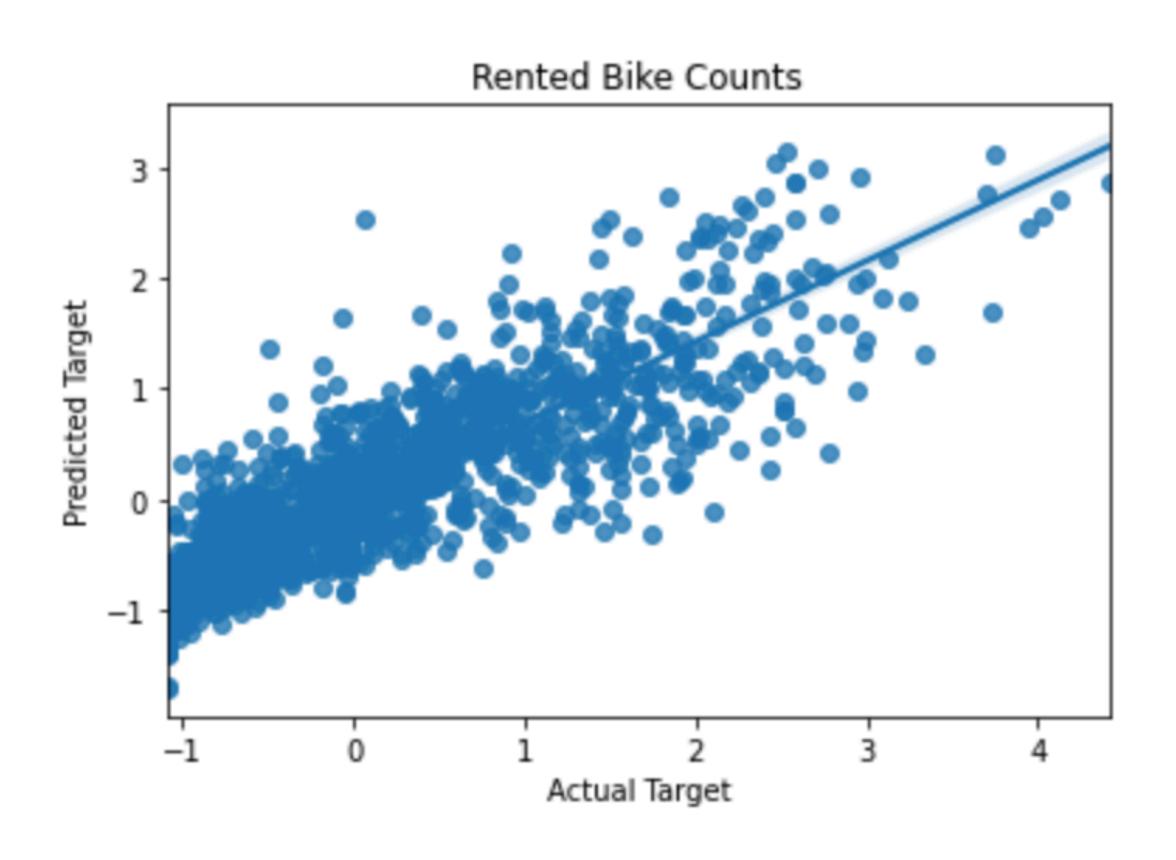




Hyperparameter Tuning Optimizes the Model of the Data



Predicted Target corresponds to Actual Target



Best Model: CatBoost Regressor

R-squared = 0.75