All you can ride llc

BIKESHARE

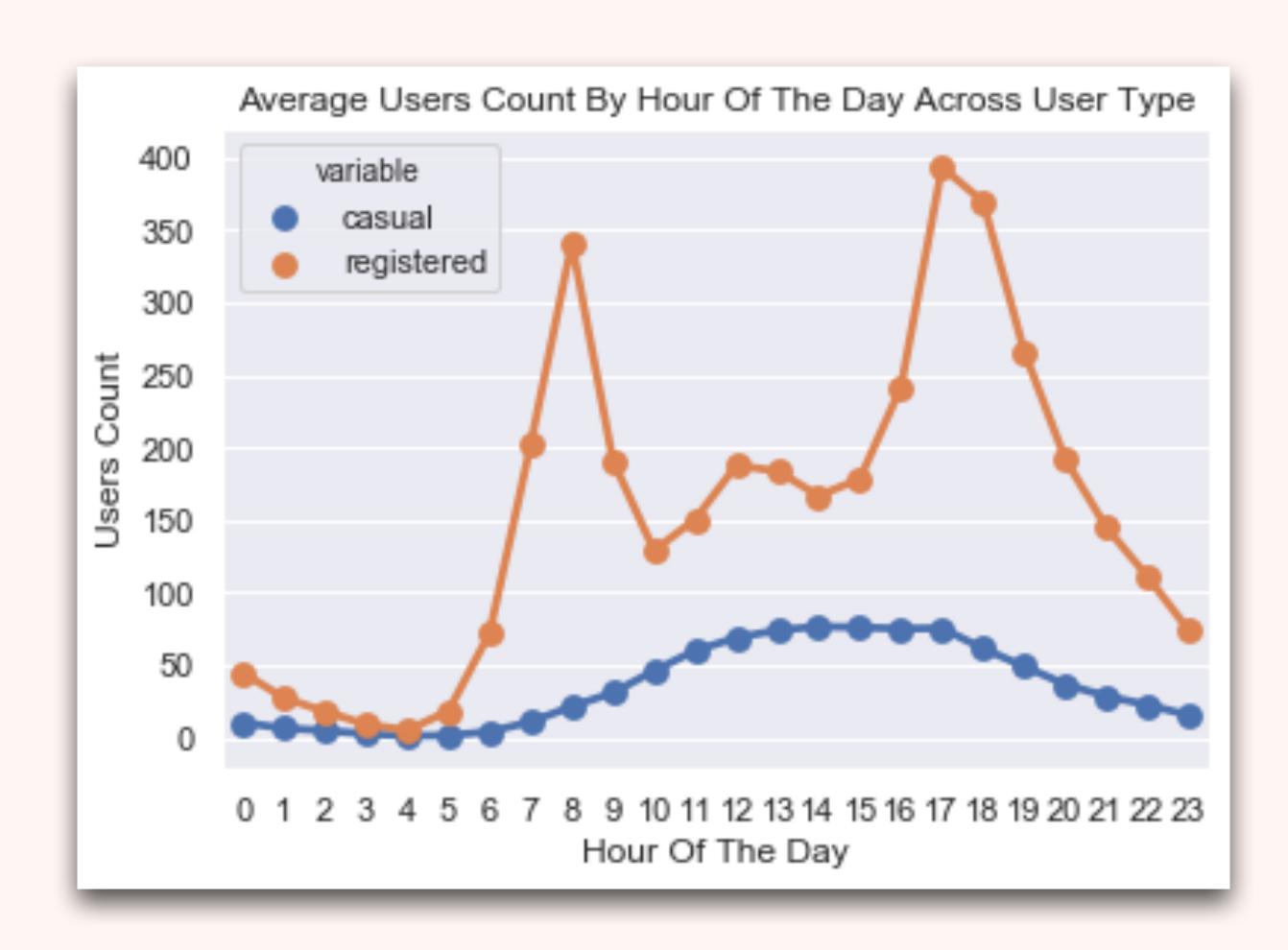
LOOKING TO EXPAND

- How many bikes do we need?
- How does the weather affect ridership?
- Do registered members engage more often?



DO REGISTERED RIDERS ENGAGE MORE OFTEN?

Registered members engage significantly more often then nonmembers

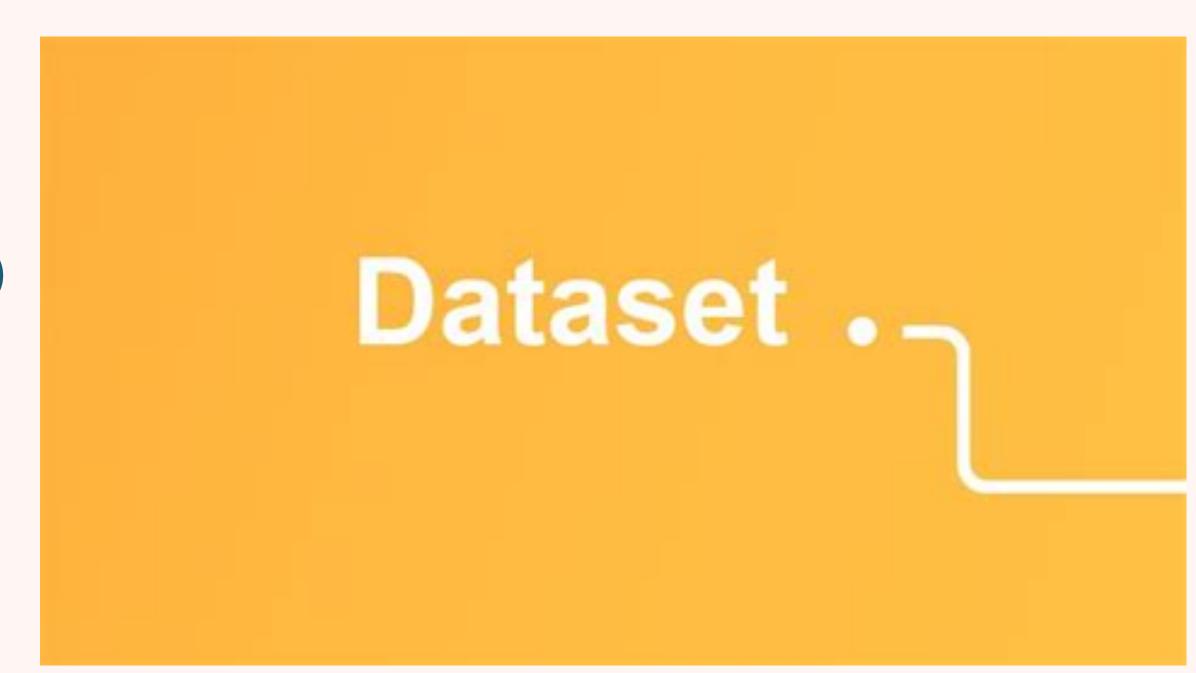


Introduce dataset

THANK YOU KAGGLE FOR PROVIDING THIS DATASET

DATASET Over 17000 observations

- > Rental count per hour
- Hourly weather (temperature, humidity, precipitation...)
- Workday or holiday
- Registered member or casual rider

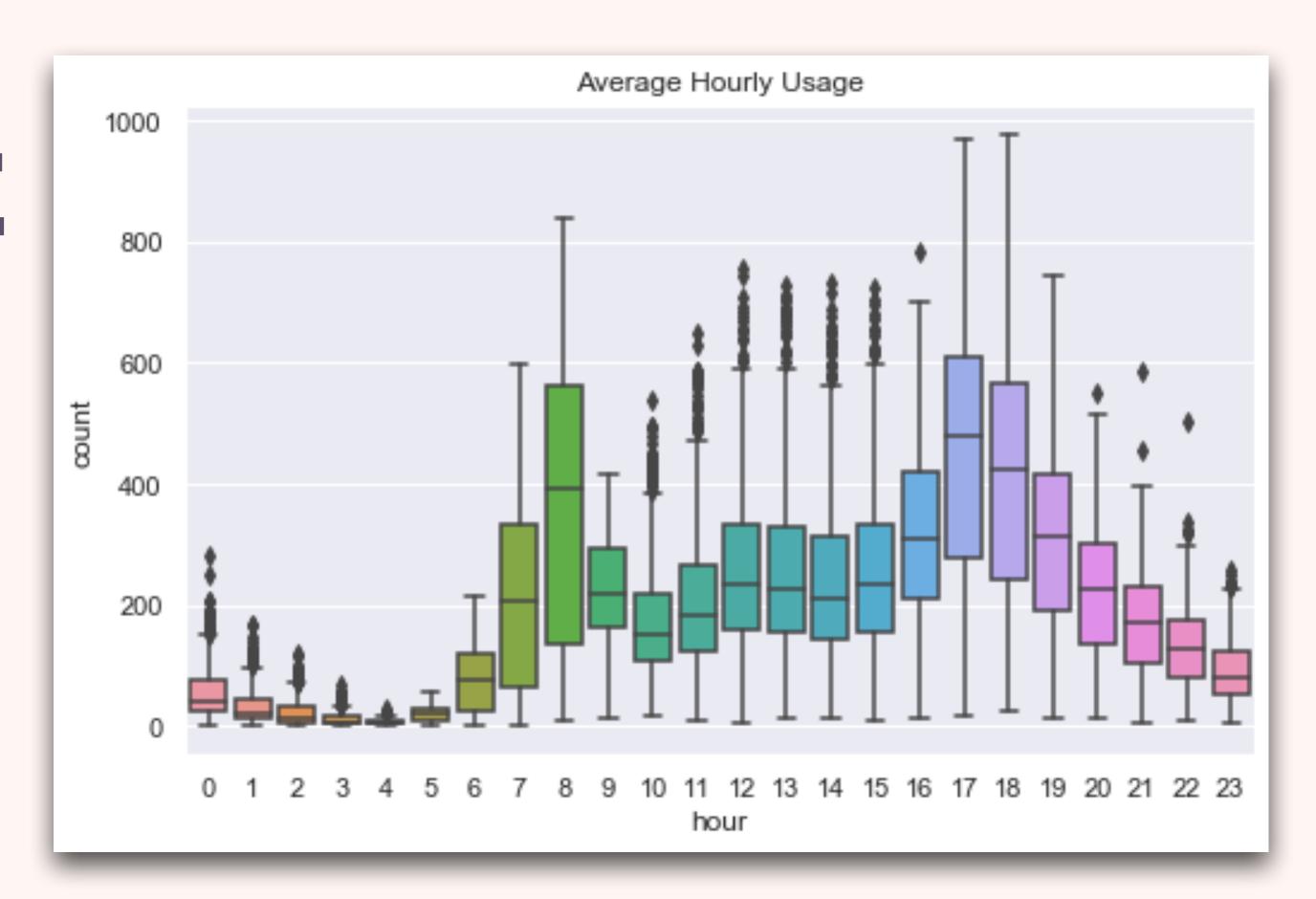


TRUST THE PROCESS

- Sourced dataset from Kaggle
- Cleaned data with pandas
- Data visualizations with seaborn
- > Created polynomial features and interactions with sklearn
- > Used multiple models to return most accurate prediction

DAILY USAGE TRENDS

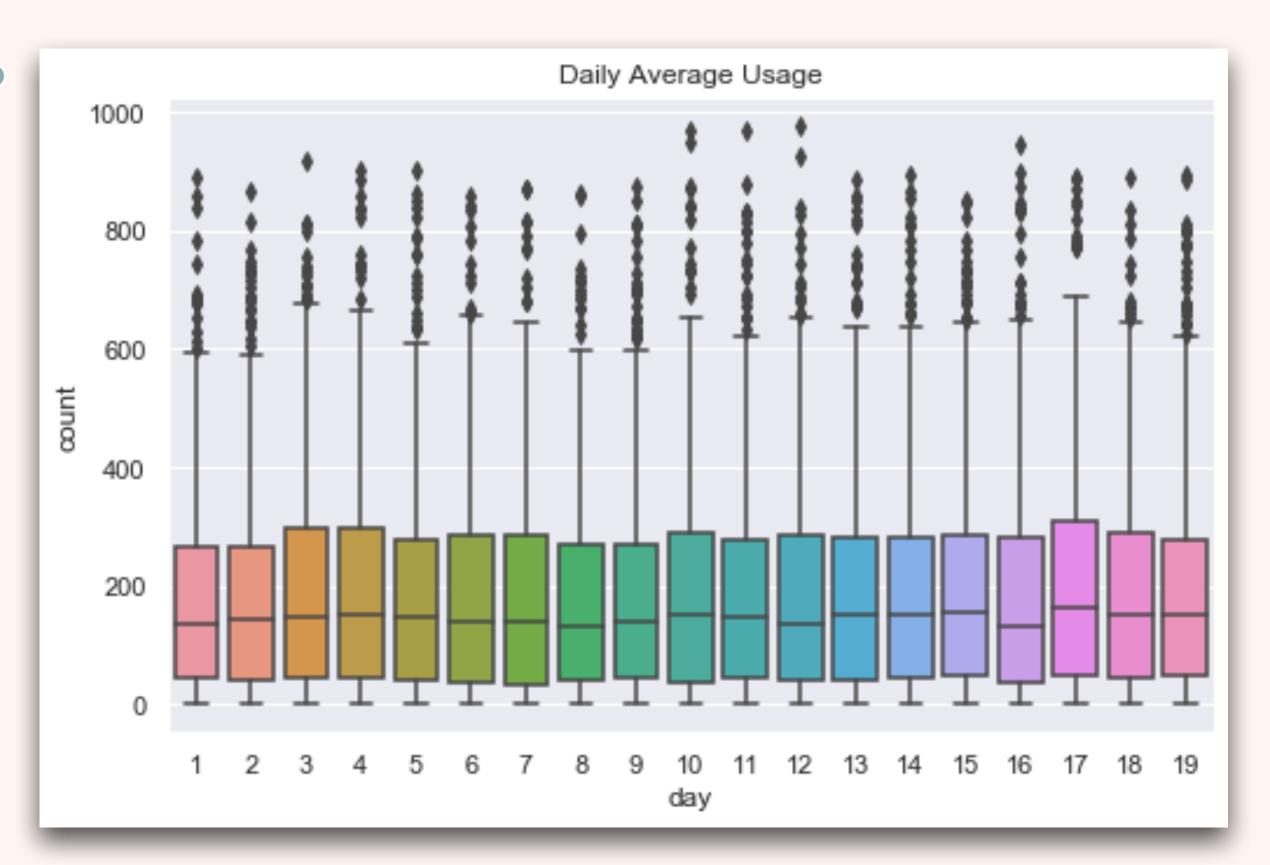
What we can expect on an average day



HOW MANY BIKES DO WE NEED?

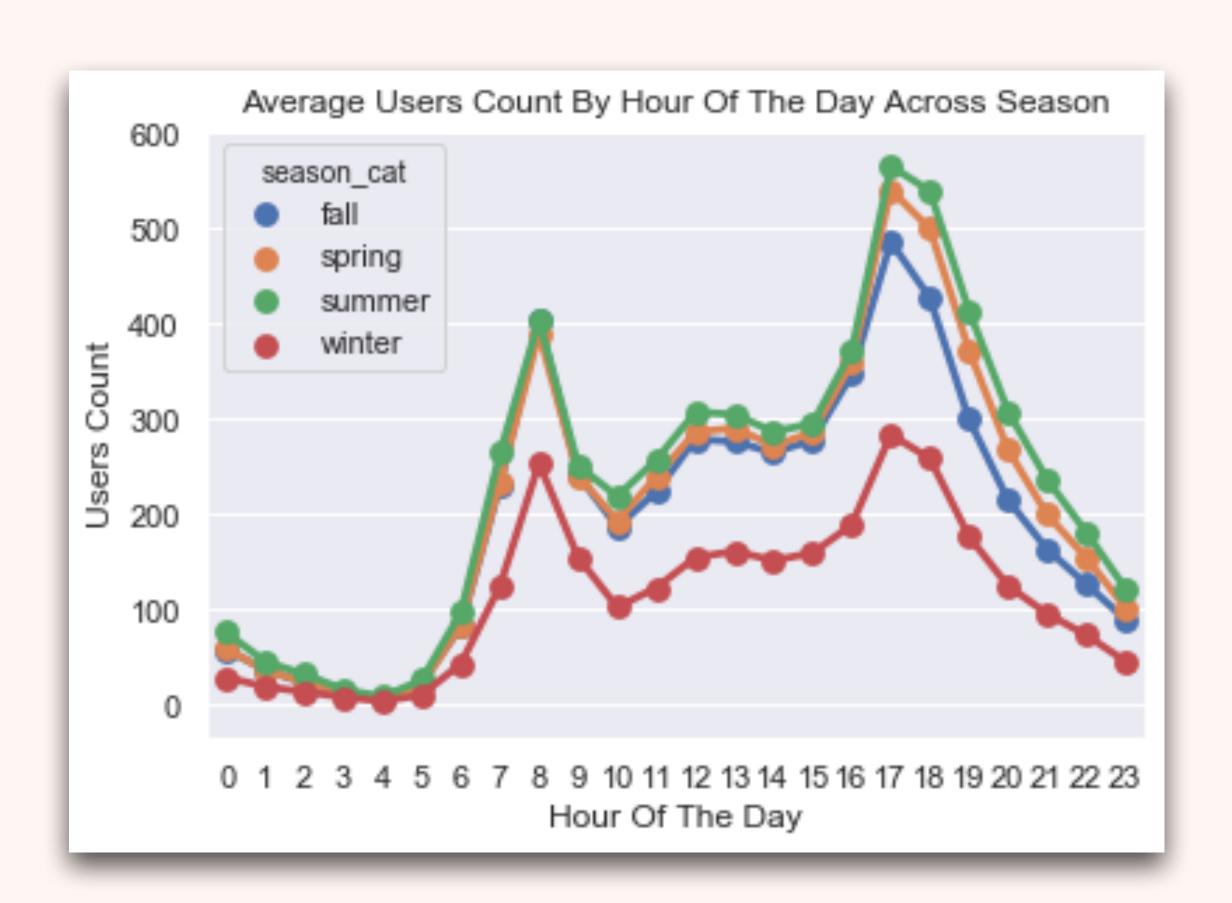
How many bikes are used per day?

- An average of 200 rentals per day
- Can reach up to 1000 rentals per day
- > What is causing the variance?



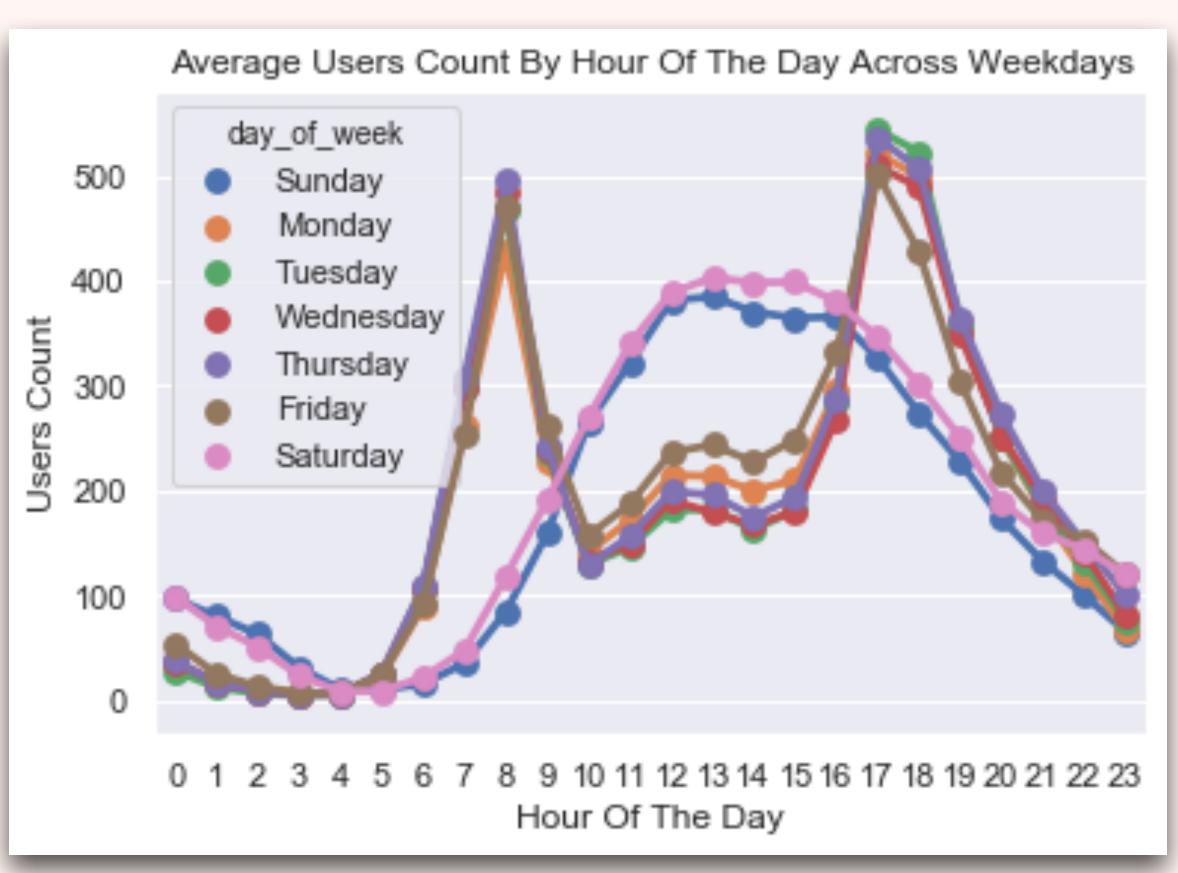
WHAT LEVEL OF SEASONALITY SHOULD WE EXPECT?

- > Seasons explain a lot of the variance
- There are fewer riders in the winter compared to the other seasons



PRIMARY USE FOR RENTALS

- Commuting to and form work on weekdays
- **Leisure on the weekends**



APPLICATIONS

- Incentivize membership as it increases engagement
- Model recommends a cushion of 200 bikes
- > Target working professionals
- > Promote riding in the summer

IF ONLY I HAD MORE TIME

- **Average distance traveled per trip**
- Average time per trip
- Identify hot zones
- > Strategize bicycle placement

THE END