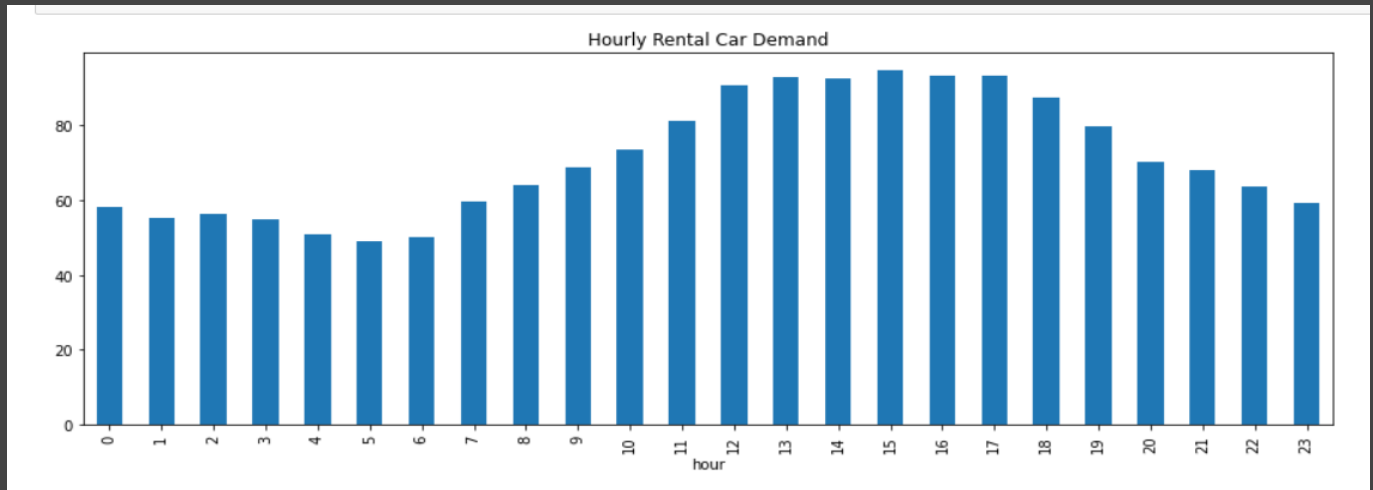


## Approach: Jobathan (April 2022)

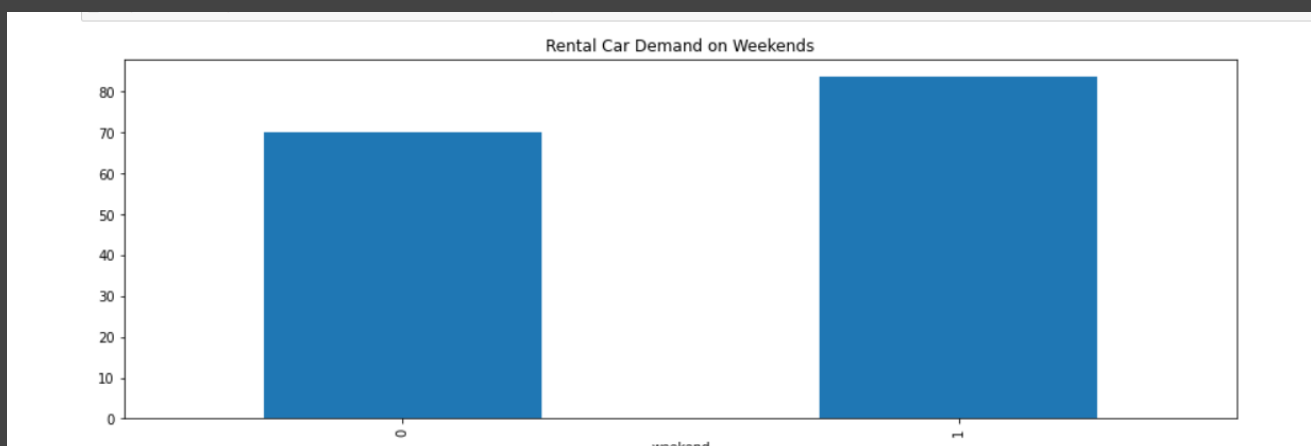
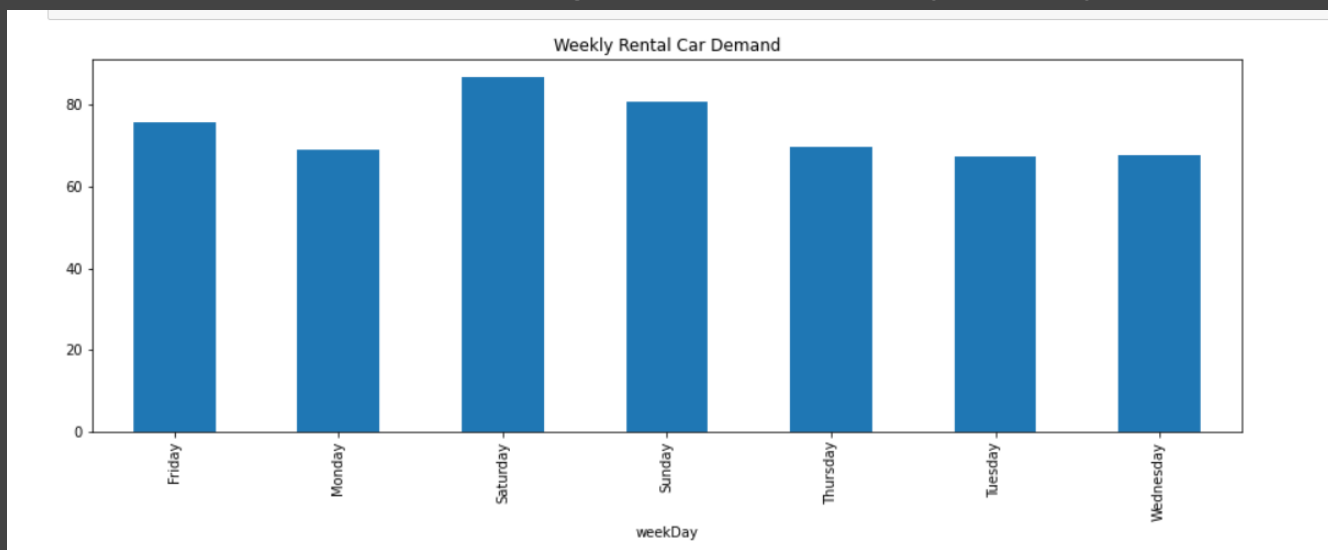
-by Vidhya Gupta

-> Created features of Dates like day, month, year, day of week and weekend

-> Trend in hourly demand has been observed



-> Rental Demand is more during weekends(Saturday, Sunday)



-> Handled categorical data - year and day of week(weekday)

->Used following models

- Linear Regression
- SVR
- XGB Regressor
- LightGBM Regressor
- Catboost Regressor
- Random Forest Regressor
- Neural Network

-> LightGBM Regressor worked best

-> Also tried using demand column with lag of 24 since we hourly trend has been found, model's RMSE improved by 0.2

-> Tried hypertuning of parameters for XGB and LightGBM, performance doesn't improved further

-> Final model is LightGBM Regressor with lag of 24 in demand column