Project Name: Boom Bike Sharing

A bike-sharing system is a service in which bikes are made available for shared use to individuals on a short-term basis for a price or free. Many bike share systems allow people to borrow a bike from a "dock" which is usually computer-controlled wherein the user enters the payment information, and the system unlocks it. This bike can then be returned to another dock belonging to the same system.

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General Info:

A US bike-sharing provider Boom Bikes has recently suffered considerable dips in their revenues due to the ongoing Corona pandemic. The company is finding it very difficult to sustain in the current market scenario. So, it has decided to come up with a mindful business plan to be able to accelerate its revenue as soon as the ongoing lockdown comes to an end, and the economy restores to a healthy state.

Technologies Used:

- NumPy - version 1.20.3

- Pandas - version 1.3.4

- Matplotlib - version 3.4.3

- Seaborn - version 0.11.2

- Statsmodels - version 0.12.2

- Sklearn - version 0.24.2

Conclusions:

\* The temperature or weather conditions form a weightage nearly 66% (temp+Summer+Winter+clear\_partlycloudy) as the cause of more demand, here it is not clear as to why the weather condition "Spring" has a negative correlation with the target variable

\* The variable "yr" has a weightage of nearly 24% for increase in bike demand

Acknowledgements:

Give credit here.

- This project was inspired by UpGrad

- References if any...

- This project was based on [Book Bike Sharing tutorials]

General Information:

You are required to model the demand for shared bikes with the available independent variables. It will be used by the management to understand how exactly the demands vary with different features. They can accordingly manipulate the business strategy to meet the demand levels and meet the customer's expectations. Further, the model will be a good way for management to understand the demand dynamics of a new market.

## Contact

Created by [@[AkashGaikwad12](https://github.com/AkashGaikwad12)] - feel free to contact me