**Capstone Project I Regression Submission**

**Instructions:**

i) Please fill in all the required information.

ii) Avoid grammatical errors.

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| **Team Member’s Name, Email, and Contribution:** |
| **Rohan\_soni**—[-sonirohan94@gmail.com](mailto:-sonirohan94@gmail.com)   * Import all Libraries * Data CSV file imported * Checked all basic information about data * Understand data columns and make a table. * EDA of Data * Feature Engineering * Select Best Feature * Data Normalization * Data Spliting * Applied Models and find accuracy * Conclusion * GitHub Commits in repository |
| **Please paste the GitHub Repo link.** |
| GitHub Link: - https://github.com/Rsoni94/Bike-Sharing-Prediction.git |
| **Please write a short summary of your Capstone project and its components. Describe the problem statement, your approaches, and your conclusions. (200-400 words)** |
| **short summary-**    **Approaches-**    Before starting of project first I had understood the problem statement given and followed by data given. After understanding data, I have checked basic information of data like no of rows, column, datatypes, etc. and then io have started EDA of project, I have plotted several plots and found some useful information from that after that I have checked skewness of data and get it normalized. After this I have splitted the data and start applying models and I found gradient boosting useful because I got good accuracy from that.  **conclusions-**   1. in Afternoon and Night there were more vehicle rented so for our business perspective we could focus more on morning time for increase supply 2. during all morning, afternoon and Night bike rent count is more in Summer Season only so we could predict that customer might be not use bike due to rain and during winter excess cool whether why I am predicting this because as we seen " As the temperature increases bike rent count increases in plot". 3. Bike Rent count is more when no holiday is there so we can say that people use bike for transportation to go for offices and other works. 4. As we seen here that in 2017 bike rent count is less and in 2018 count is increase drastically why because due to starting of services people might not know about this much so they used less but when people start using this service count is gone more in 2018 so we could expect that in upcoming year count would further increase as people will use service more and more. 5. Here we clearly seen trend that first month count is increasing in every month till summer and after that count is further start declining it may be because of rainy season people prefer less bike rent services. 6. Final comment is that " There is a scope of improvement further as we need more data in future and we could capture information of customers who have used these services and we could also capture their occupation so we could predict more accurately". |