**Capstone Project 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:** |
| Name - Nikita Verma  Email – [nikita0077verma@gmail.com](mailto:nikita0077verma@gmail.com)  Contribution:  1> Understanding the data  2> Data wrangling  3> Data Visualization  4> Feature engineering and data per-processing  5> Correlation  6> Model building  7> Model fitting  8> Conclusion |
| **Please paste the GitHub Repo link.** |
| Github Link:- https://github.com/Nikkiie/Bike-sharing-demand-prediction-Cap-2- |
| **Please write a short summary of your Capstone project and its components. Describe the problem statement, your approaches and your conclusions. (200-400 words)**  **Currently Rental bikes are introduced in many urban cities for the enhancement of mobility comfort. It is important to make the rental bike available and accessible to the public at the right time as it lessens the waiting time. Eventually, providing the city with a stable supply of rental bikes becomes a major concern. The crucial part is the prediction of bike count required at each hour for the stable supply of rental bikes. Therefore, the business to strive and profit more, it has to be always ready and suplly no of bikes at different location s, to fullfill the demand.**  **The dataset didn’t contain null, duplicate values. Data wrangling was done in required fields. After that data visualization was done and insights were found.For treatment of skewness transformations were tried and sqrt transform was giving best transformation, after that correlation was checked and multicollinearity,after encoding Model fitting was done.**  **Model used:-**  **Linear regression**  **Decision tree with Gridsearchcv**  **Random forest with gridsearchcv**  **Gradient boost** |
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