**Capstone Project Submission**

**Instructions:**

i) Please fill in all the required information.

ii) Avoid grammatical errors.

| **Team Member’s Name, Email and Contribution:** |
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| MOHIT  [mohitraj601@gmail.com](mailto:mohitraj601@gmail.com) |
| **Please paste the GitHub Repo link.** |
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| **Please write a short summary of your Capstone project and its components. Describe the problem statement, your approaches and your conclusions. (200-400 words)** |
| 1. Functioning day is the most influencing feature and temperature is at the second place for LinearRegressor.  2. Temperature is the most important feature for DecisionTree, RandomForest and GradientBoosting Regressor.  3. Functioning day is the most important feature and Winter is the second most for XGBoostRegressor.  4. RMSE Comparisons:  1. LinearRegressor RMSE : 370.46  2. DecissionTreeRegressor RMSE : 302.53  3. RandomForestRegressor RMSE : 290.02  4. XGBoostRegressor RMSE : 242.72  5. GradientBoostingRegressor RMSE : 248.18  5. The feature temperature is on the top list for all the regressors except XGBoost.  6. XGBoost is acting different from all the regressors as it is considering whether it is winter or not. And is it a working day or not. Though winter is also a function of temperature only but it seems this trick of XGBoost is giving better results.  7. XGBoostRegressor has the Least Root Mean Squared Error. So It can be considered as the best model for given problem. |
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