

Approach

1. First I imported the necessary libraries.
2. Read and viewed the data.
3. Checked for missing values.
4. Did variable Typecasting.
5. Extracted Features From Date Variable.
6. Dropped the Date Variable.
7. Tried various ML models out of which Random forest performed the best.
8. Built a Random forest (RF) model.
9. Did predictions and computed the RMSE score.
10. Did hyperparameter tuning.
11. Again built a new RF model with new hyperparameter values.
12. Did predictions and computed the RMSE score for the new RF model.
13. At last, converted the test data frame to a CSV file.