Approach

- 1. First I imported the necessary libraries.
- 2. Read and viewed the data.
- 3. Checked for missing values.
- 4. Did variable Typecasting.
- 5. Imputed the missing values present in "products_purchased" Variable.
- 6. Extracted Features From "signup_date" and "created_at" Variables.
- 7. Dropped "id", "signup_date" and "created_at" Variables.
- 8. Tried various ML models out of which Random forest performed the best.
- 9. Built a Random forest (RF) model.
- 10.Did predictions and computed the f1 score.
- 11.Did hyperparameter tuning.
- 12. Again built a new RF model with new hyperparameter values.
- 13.Did predictions and computed the f1 score for the new RF model.
- 14. At last, converted the test data frame to a CSV file.