# Predicting Restaurant Tips Using Predictive Analytics on Excel

#### Problem Statement:

Use Excel to build a model to predict restaurant tips given input values with the mathematical equation for predicting the value of the tips

# Objectives:

• To predict restaurant tips given input values with the mathematical equation for predicting the value of the tip

#### Prerequisites:

- Data cleaning and preparation
- Data analysis using statistics
- Formatting in excel

### Industry Relevance:

- Data cleaning and preparation: It is the process of cleaning and transforming raw data before processing and analysis.
- Data analysis using statistics: In statistical analysis, large amounts of data are collected, analyzed, and converted into valuable information by identifying patterns and trends.
- Formatting in excel: It helps to make data look more interesting and descriptive.

### Dataset Description:

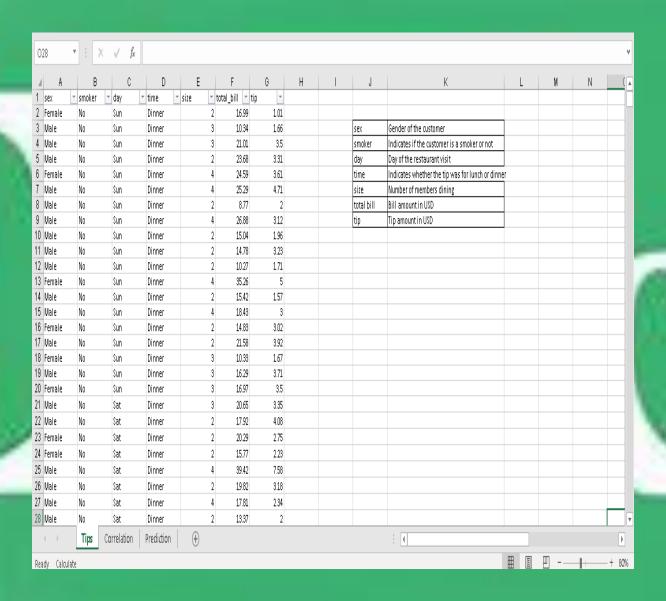
### Variable - Description

sex - Gender of the customer

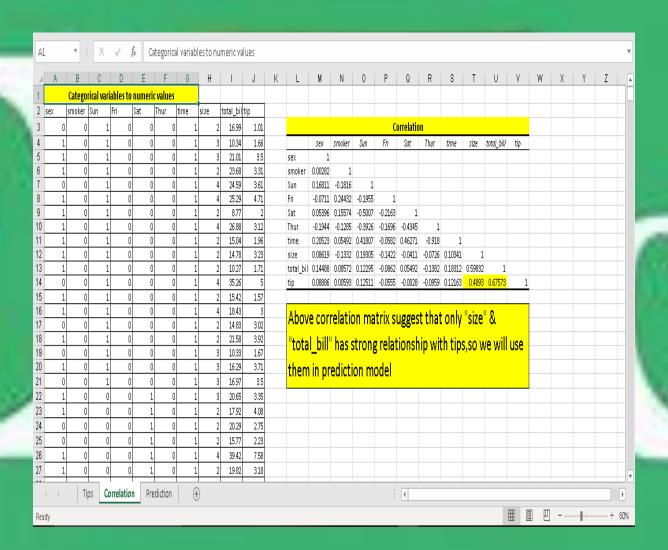
- smoker Indicates if the customer is a smoker or not
- day Day of the restaurant visit
- Time Indicates whether the tip was for lunch or dinner
- size Number of members dining
- total bill Bill amount in USD
- tip Tip amount in USD

## Tasks to Perform:

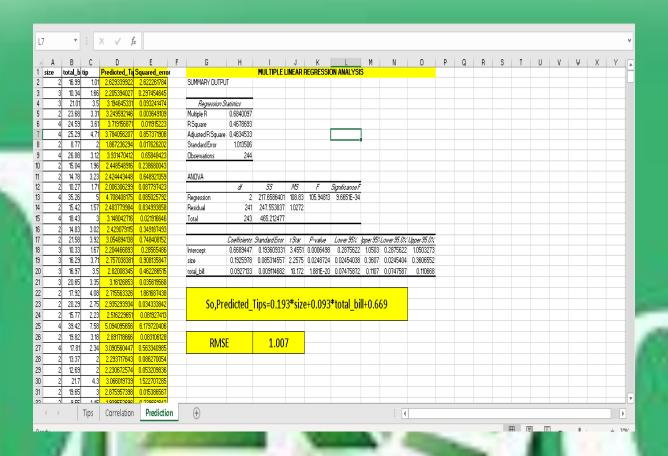
#### Tips:



#### **Correlation:**



#### **Prediction:**



## Project Outcome:

- The aim of the project is to predict restaurant tips given input values with the mathematical equation for predicting the value of the tips.
- You will be able to understand the restaurant tips based on what is the customer's age and gender, and what is the time of the day.



