

## Objective

To forecast daily or weekly bar sales using historical transaction data and external influencing factors like weather, weekends, and public holidays.

## Dataset Overview

Each row represents a single operational day at the bar (aligned with business hours: 4 AM close). The dataset covers March 2025 with complete day-wise records including both open and closed days.

## Dataset Overview

Feature	Description
Operational Date	Date representing the operational bar session (sales after midnight counted as prior day)
Total_Sales	Total revenue from bar transactions for the day (tips excluded)
Sales_Count	Number of transactions (receipts) that day
Tips_per_Transaction	Average tip per transaction — useful behavioral proxy
Avg_Sale_per_Transaction	Average spend per customer (Total_Sales / Sales_Count)
Is_Closed	1 if the bar was closed (0 sales), 0 otherwise
Day_of_Week	Numeric day of week (0=Monday, 6=Sunday)
Is_Weekend	1 if day is Friday, Saturday, or Sunday — typically busier for bars
Is_Public_Holiday	1 if national public holiday (none in March, but added for future months)
tempmax, tempmin, temp	Daily temperature measures (in °F)
humidity	Relative humidity (%)
precip	Precipitation total (inches)
precipprob	Probability of precipitation (%)
cloudcover	% of sky covered by clouds
solarradiation	Solar energy
uvindex	UV brightness scale (0–11+)