## 2. Project Goal (Refined)

The project aimed to analyze café sales data to uncover actionable insights that improve revenue, efficiency, and customer experience. Specifically, it focused on:

- Identifying top-selling items and their contribution to revenue.
- Detecting sales patterns across days, weeks, and months to guide promotions and seasonal planning.
- Understanding peak hours to optimize staffing and operations.
- Exploring location performance differences for targeted decision-making.

The ultimate goal was not just to clean and visualize data, but to generate insights that directly inform pricing strategy, inventory planning, and marketing efforts.

## 7. Deliverables (Refined)

At the end of the project, the following deliverables were produced:

- 1. Cleaned, Analysis-Ready Dataset
  - Corrected missing values, standardized formats, normalized categories.
  - Computed reliable revenue metrics (total\_spent).
- 2. Exploratory Data Visualizations
  - Revenue trends over time (monthly/weekly).

- Top items and categories by revenue share.
- Heatmaps of demand by weekday/hour.
- Correlation analysis of sales drivers.

## 3. Business Insights Report

- Summarized key findings into clear, actionable recommendations.
- Linked data patterns (e.g., peak hours, seasonality) to business actions like promotions, staffing, and stock management.
- 4. Structured Project Documentation (this report)
  - Provides a transparent project trail from raw data to insights.
  - Designed for stakeholders and hiring managers to evaluate problem-solving, technical, and analytical skills.