Technology Stack and System Environment

Technology Stack

Layer	Technology Used
Data Source	CSV Dataset
Database	MySQL
Query Language	SQL
Visualization	Tableau Desktop
Publishing	Tableau Public
Web Integration	Flask
Programming Language	Python
Hosting	Localhost

System Requirements

Hardware:

- Minimum 8GB RAM
- 64-bit OS

Software:

- Python 3.10+
- MySQL Server
- Tableau Desktop
- VS Code
- Git & GitHub

Justification of Technology

Why MySQL?

- Structured data storage
- Efficient aggregation

Why Tableau?

- Strong time-series visualization
- Interactive dashboards
- Easy story creation

Why Flask?

- Lightweight
- Easy dashboard embedding
- Simple deployment