VIT®

Vellore Institute of Technology

(Deemed to be University under section 3 of UGC Act, 1956)

Course Project

Internet and Web Programming

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Reg.no.: 22BCE2643

Slot: E2+TE2

Course Code: BCSE404L

Faculty: Dr. A. Mary Mekala

Background

In the modern day, training AI and ML models for domain specific implementations. For this, we need to quickly view and analyse the datasets available online in various formats like JSON APIs, csv files, etc.

Problem Statement

Dockerized Multi-source data acquisition, visualization and analysis dashboard using HTML, CSS, JS, NodeJs and MongoDB.

Demo Video Link

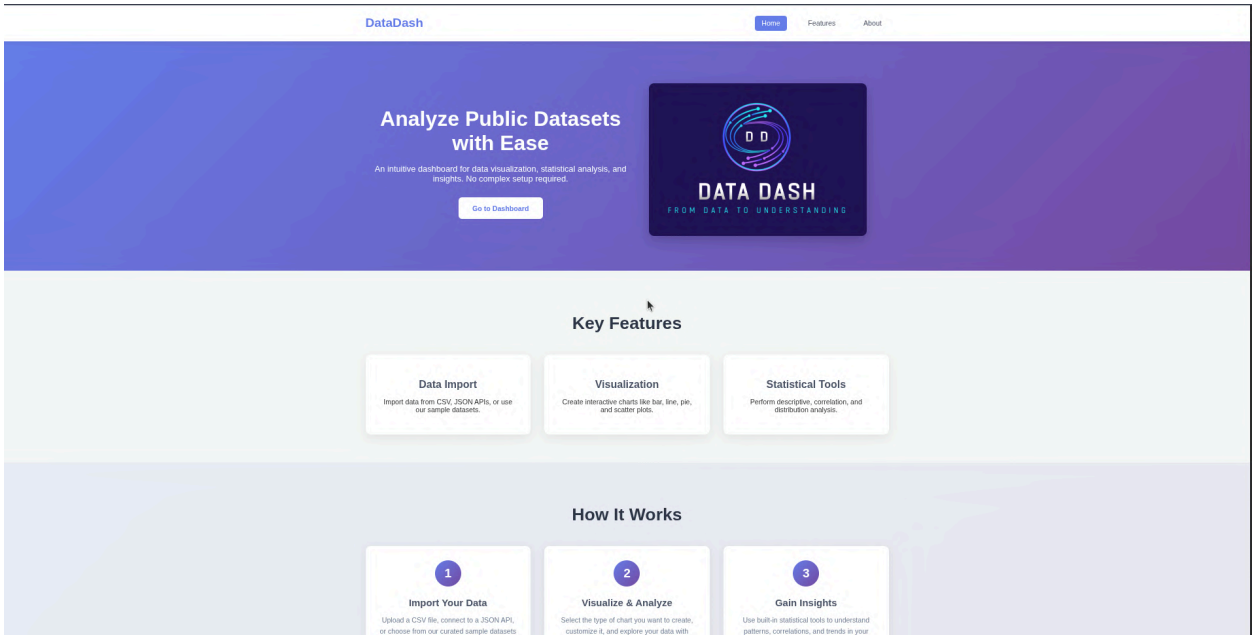
https://drive.google.com/file/d/1YF53MEk7DM9iU21KHCA7YUvbs_5q1_FJ/view?usp=sharing

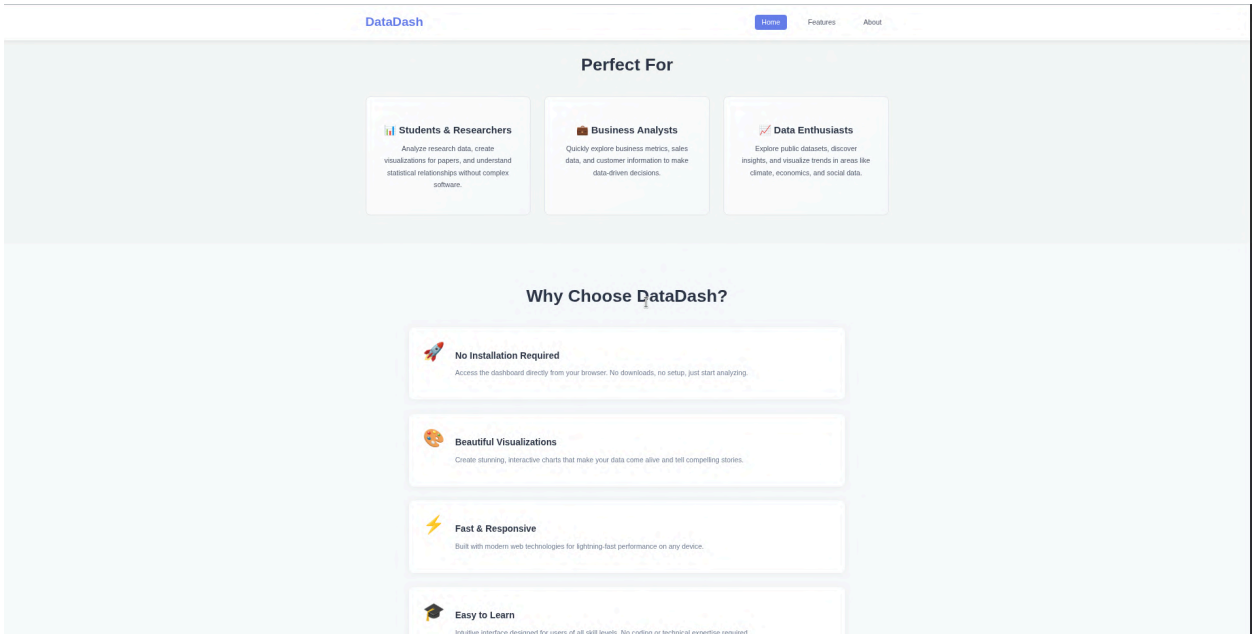
Github Link

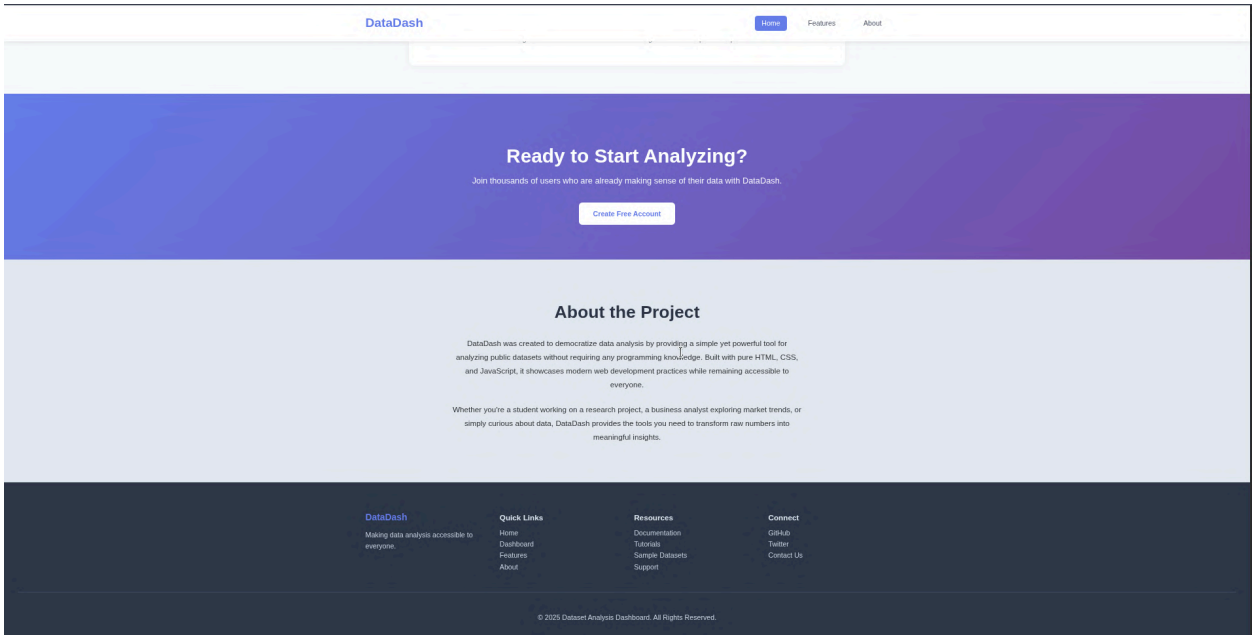
The entire code is available at as its too big:
https://github.com/exMachina316/Data-Analysis-and-Plotting

Results

1. Landing Page




DataDash
Home
Features
About
Perfect For
📊 Students & Researchers
Analyze research data, create visualizations for papers, and understand statistical relationships without complex software.
💼 Business Analysts
Quickly explore business metrics, sales data, and customer information to make data-driven decisions.
📈 Data Enthusiasts
Explore public datasets, discover insights, and visualize trends in areas like climate, economics, and social data.
Why Choose DataDash?
No Installation Required
Access the dashboard directly from your browser. No downloads, no setup, just start analyzing.
Beautiful Visualizations
Create stunning, interactive charts that make your data come alive and tell compelling stories.
Fast & Responsive
Built with modern web technologies for lightning-fast performance on any device.
Easy to Learn


DataDash
Home
Features
About
Ready to Start Analyzing?
Join thousands of users who are already making sense of their data with DataDash.
Create Free Account
About the Project
DataDash was created to democratize data analysis by providing a simple yet powerful tool for analyzing public datasets without requiring any programming knowledge. Built with pure HTML, CSS, and JavaScript, it showcases modern web development practices while remaining accessible to everyone.
Whether you're a student working on a research project, a business analyst exploring market trends, or simply curious about data, DataDash provides the tools you need to transform raw numbers into meaningful insights.
DataDash
Making data analysis accessible to everyone.
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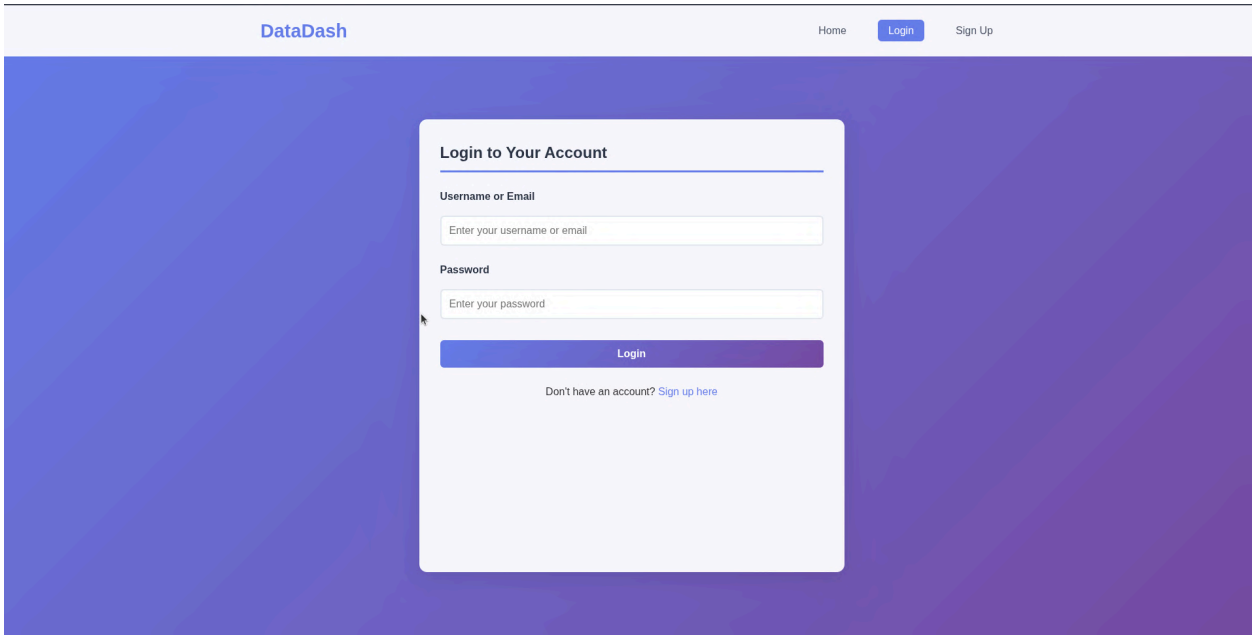
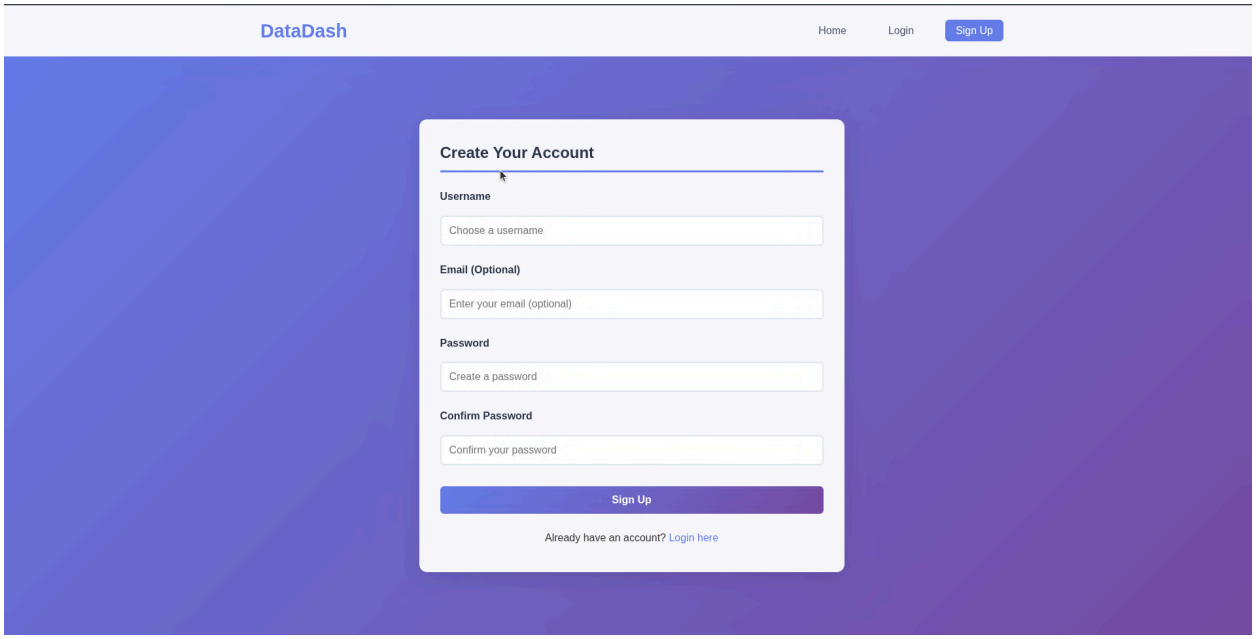
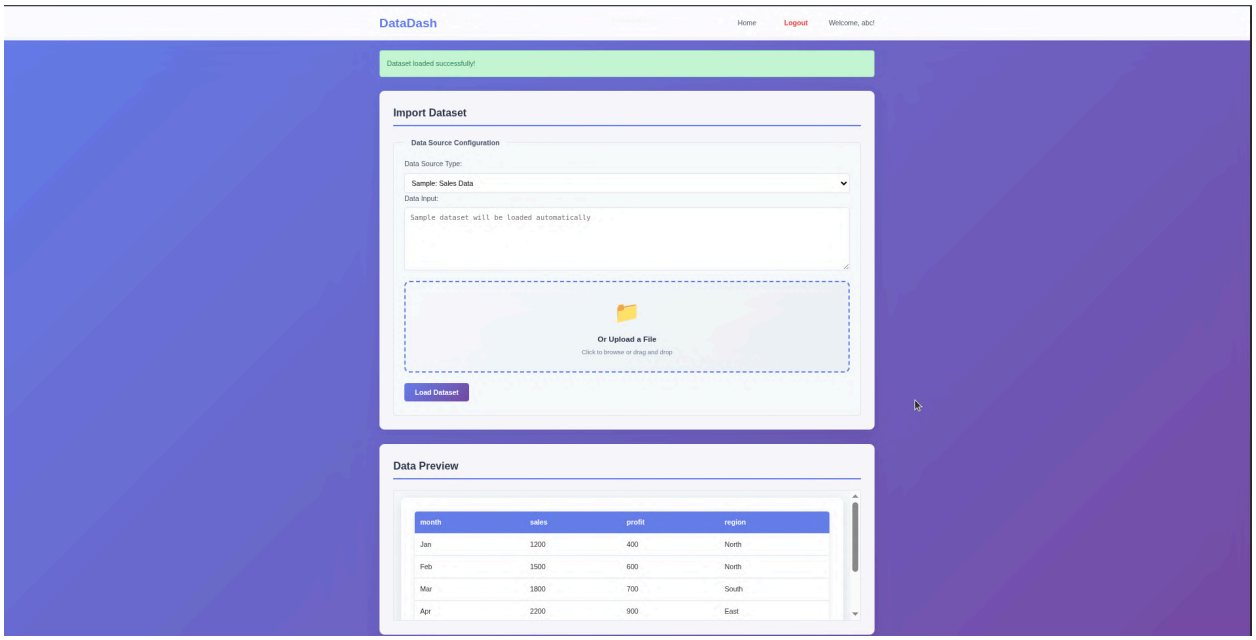
2. Login Page



3. Signup Page

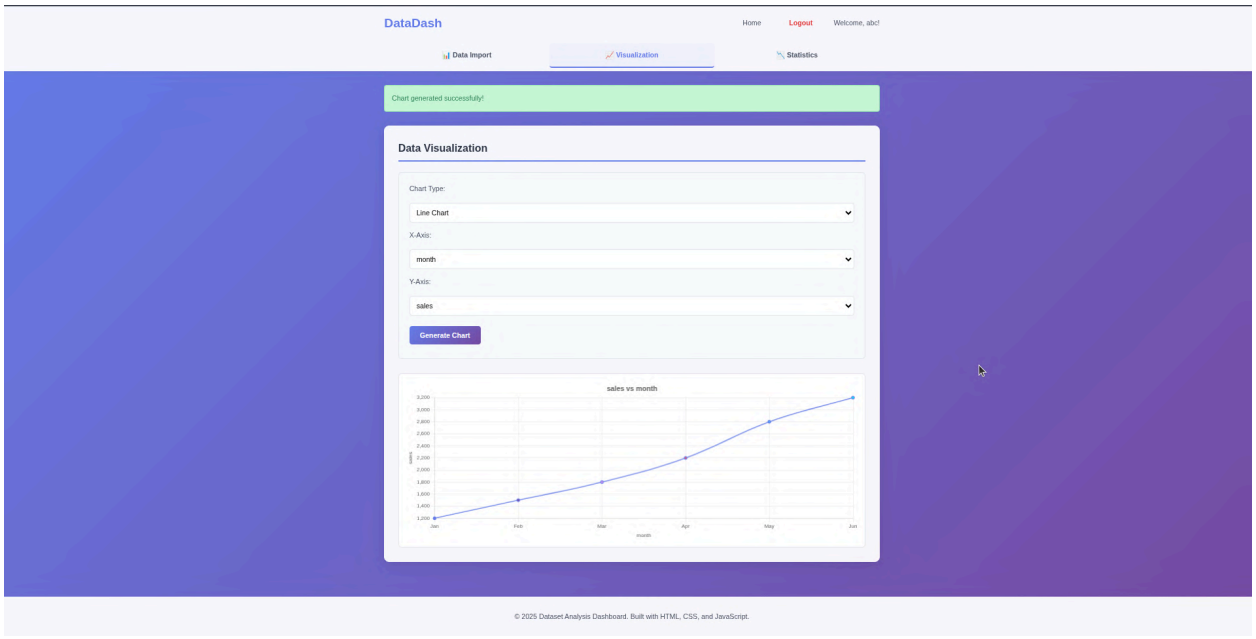


4. User Dashboard

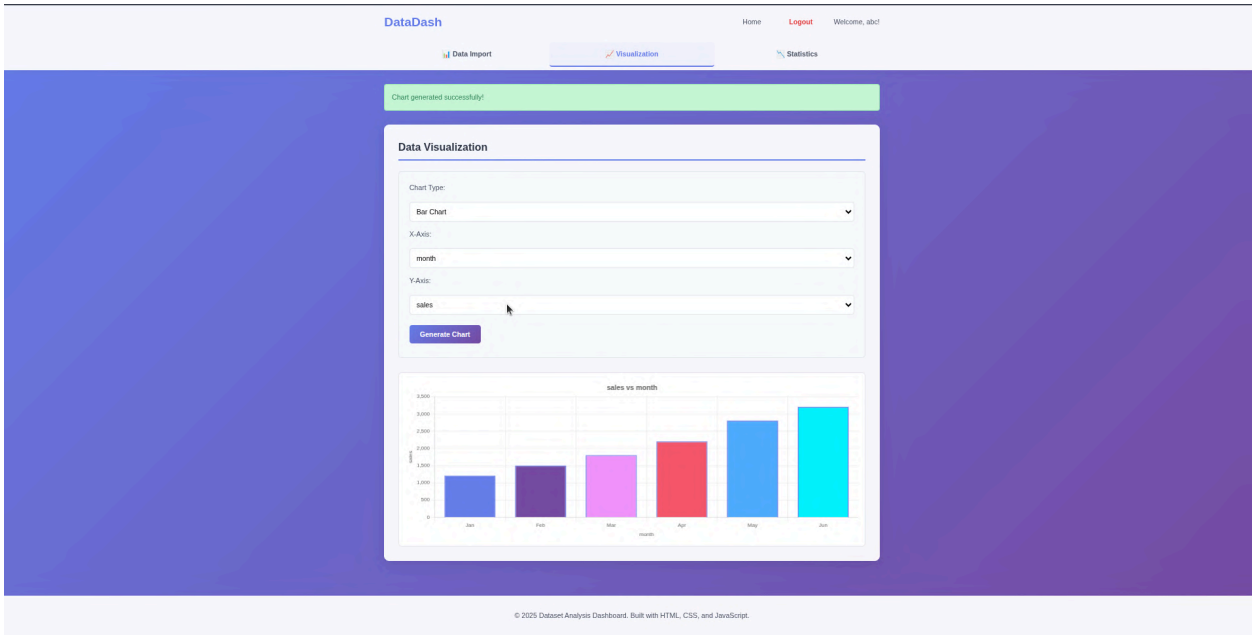


5. Visualization Page

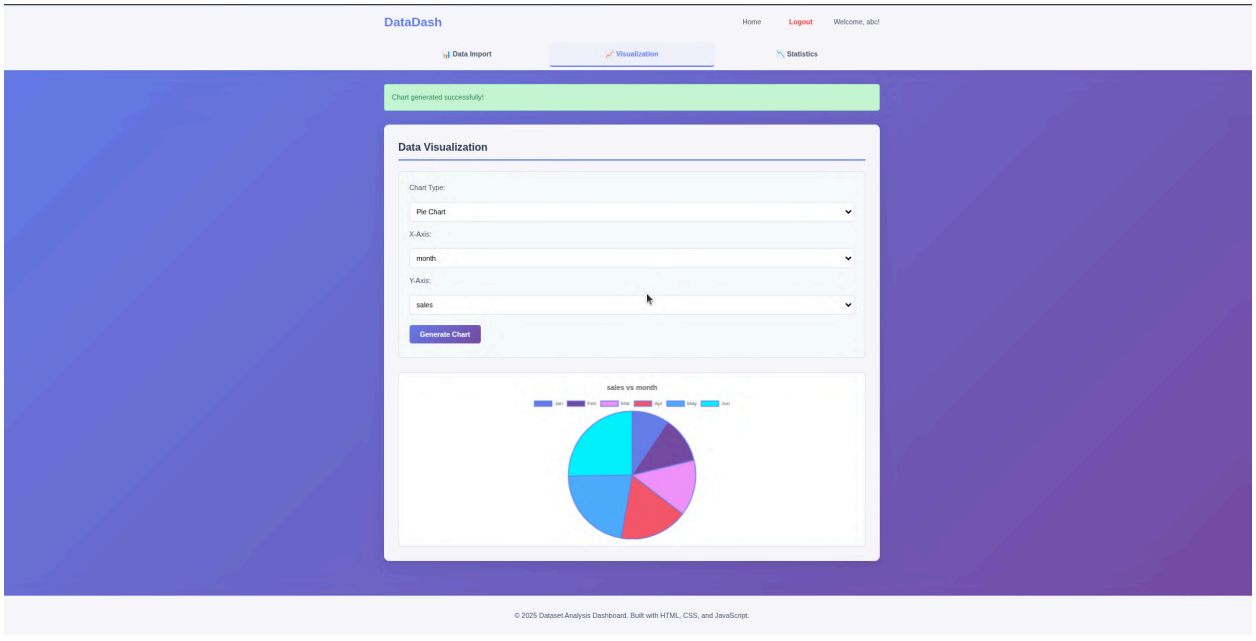
i. Line Chart



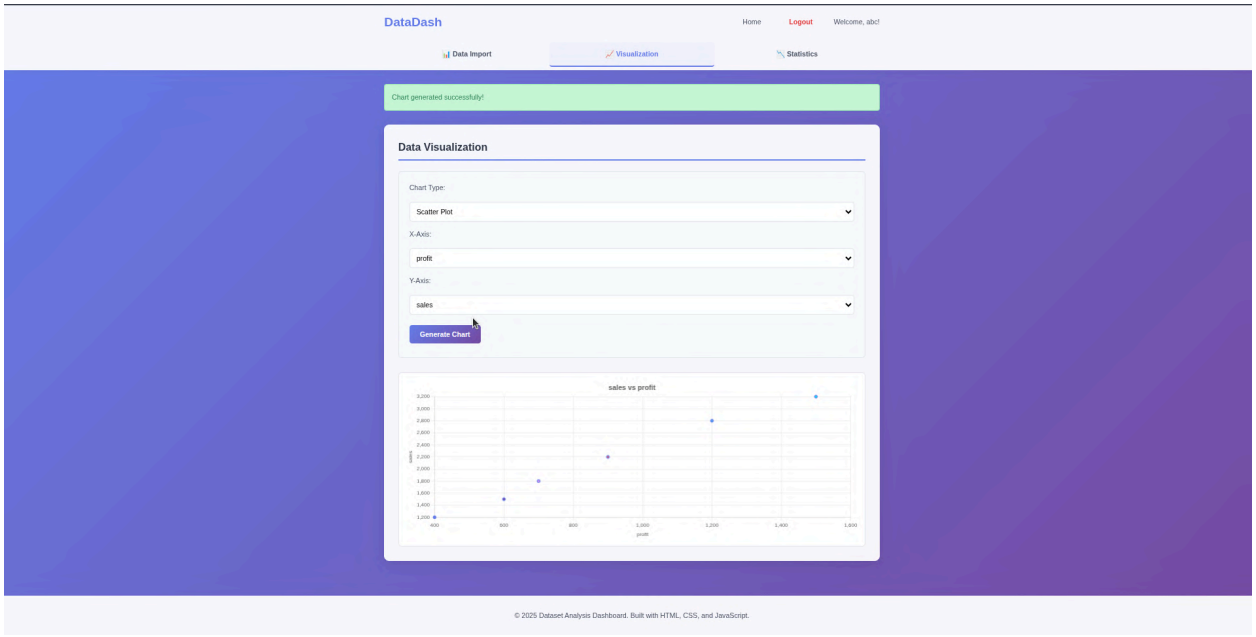
ii. Bar Chart



iii. Pie Chart

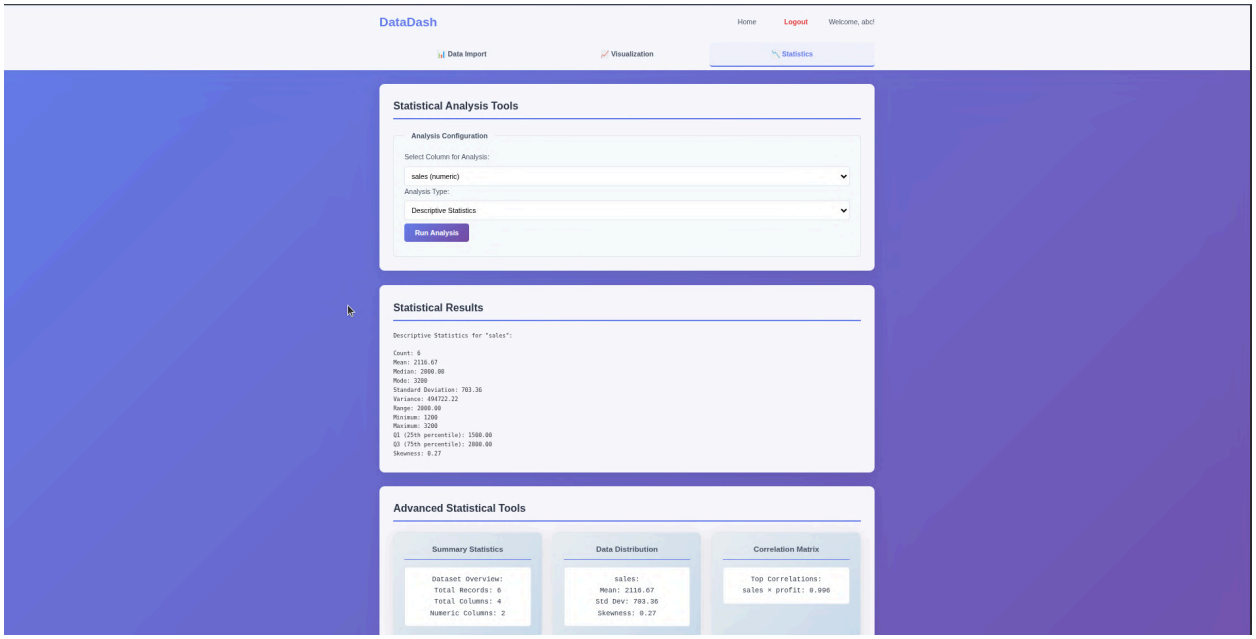


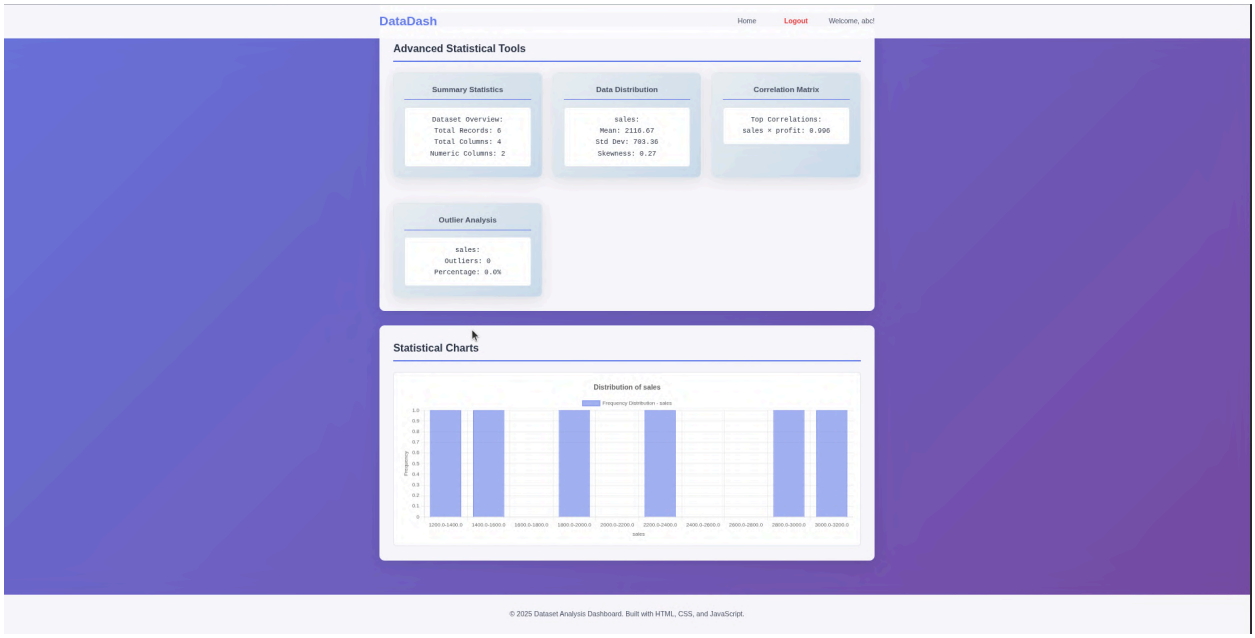
iv. Scatter Plot



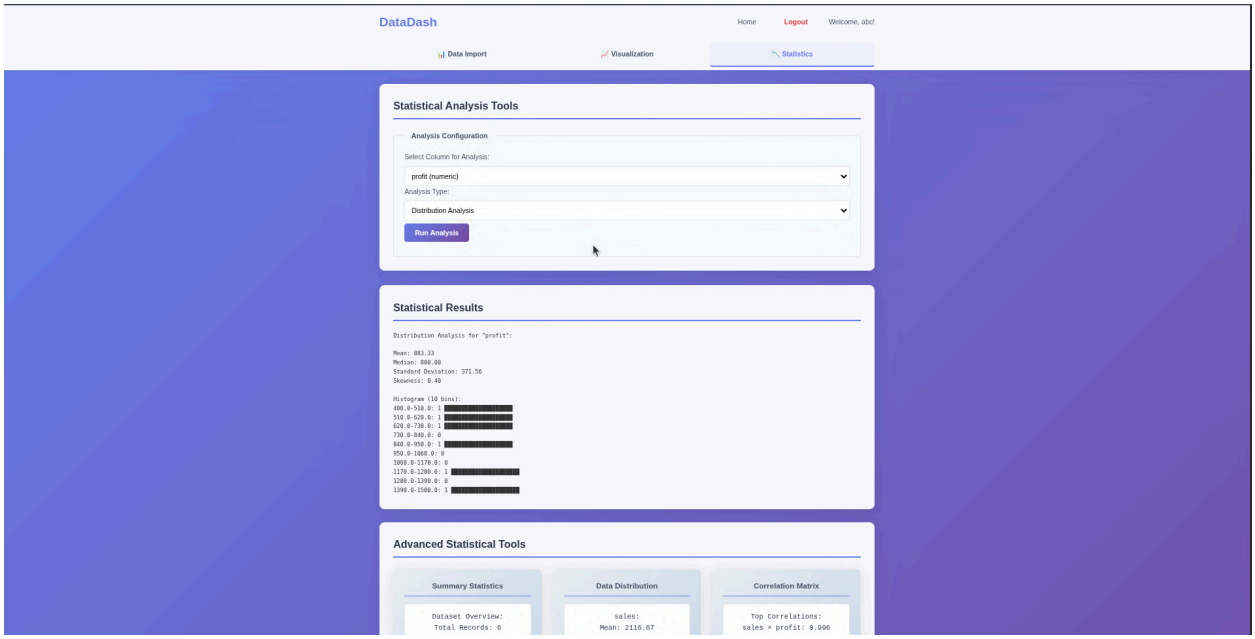
6. Statistics Page

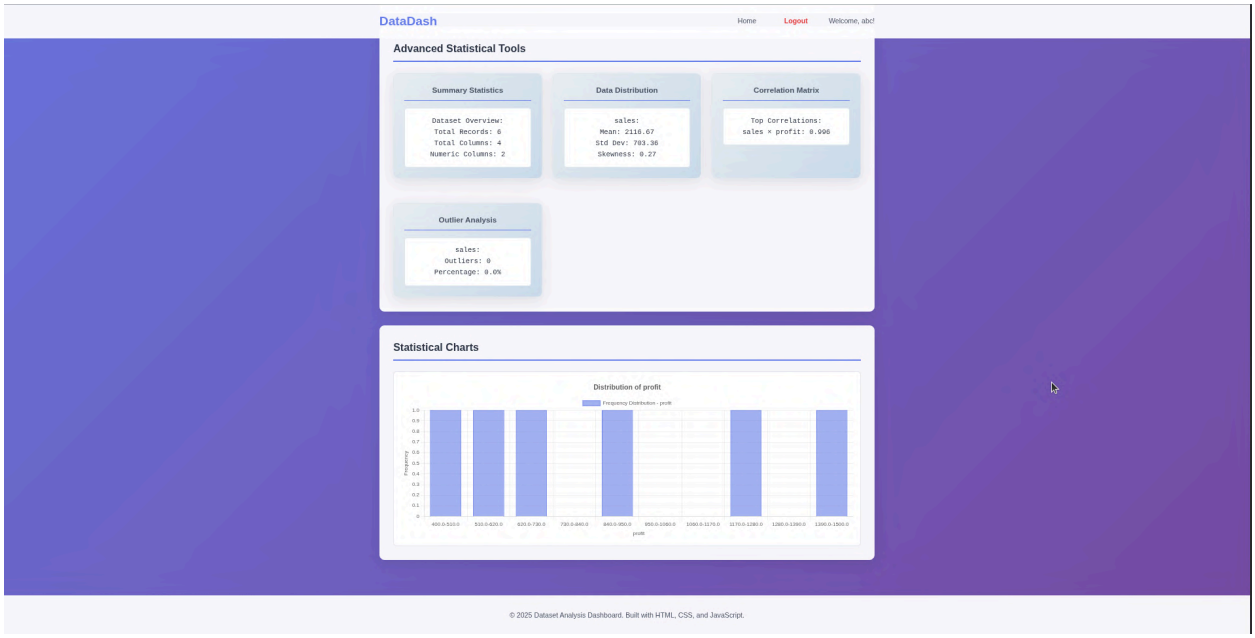
i. Descriptive Statistics



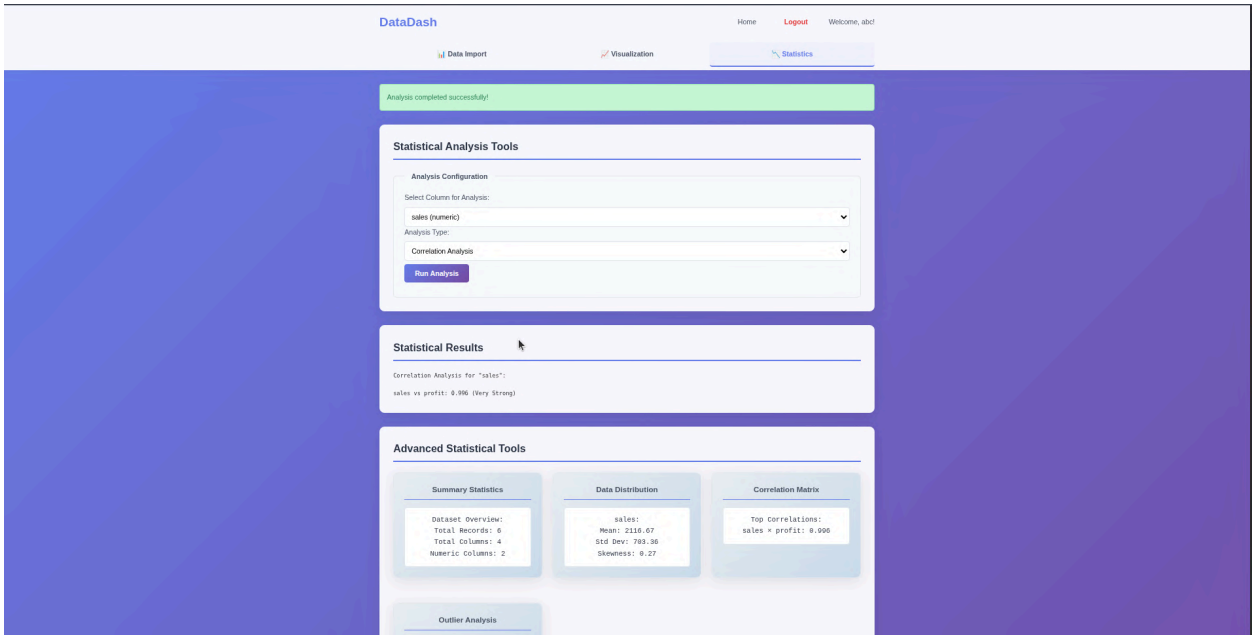


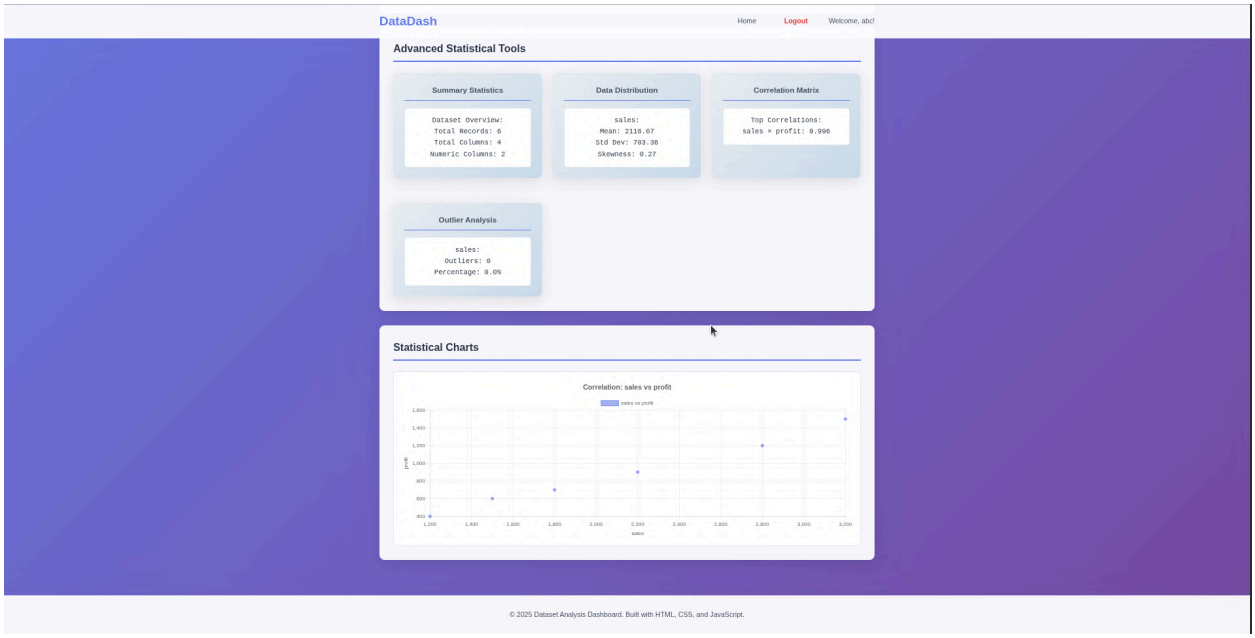
ii. Distributive Analytics



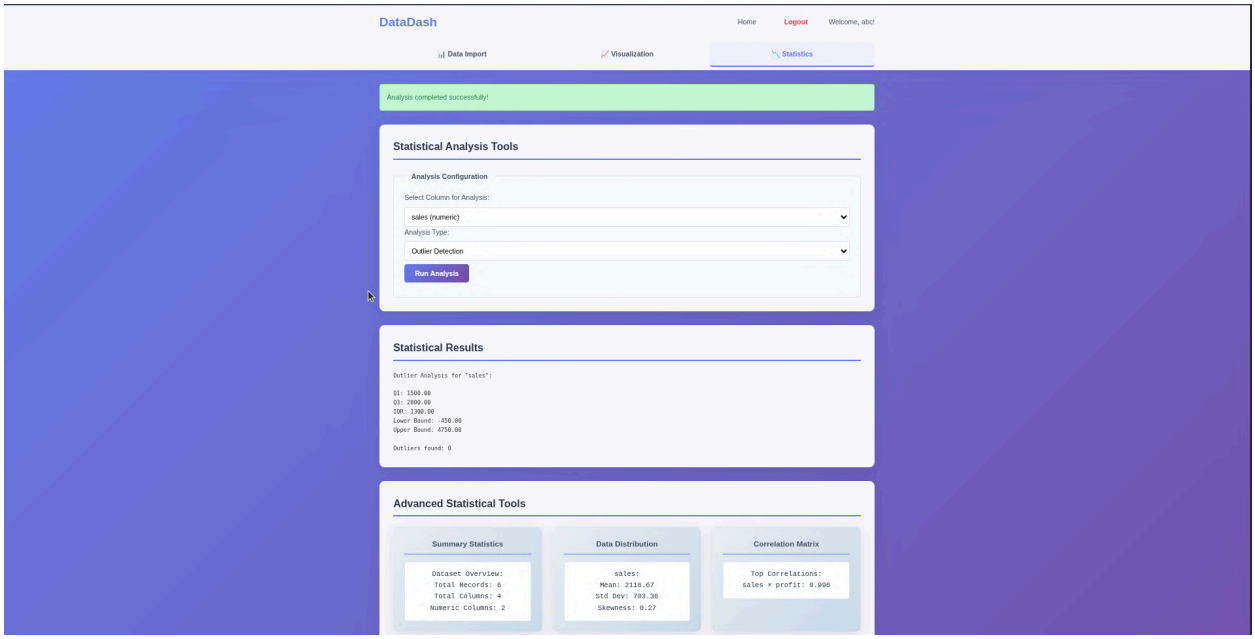


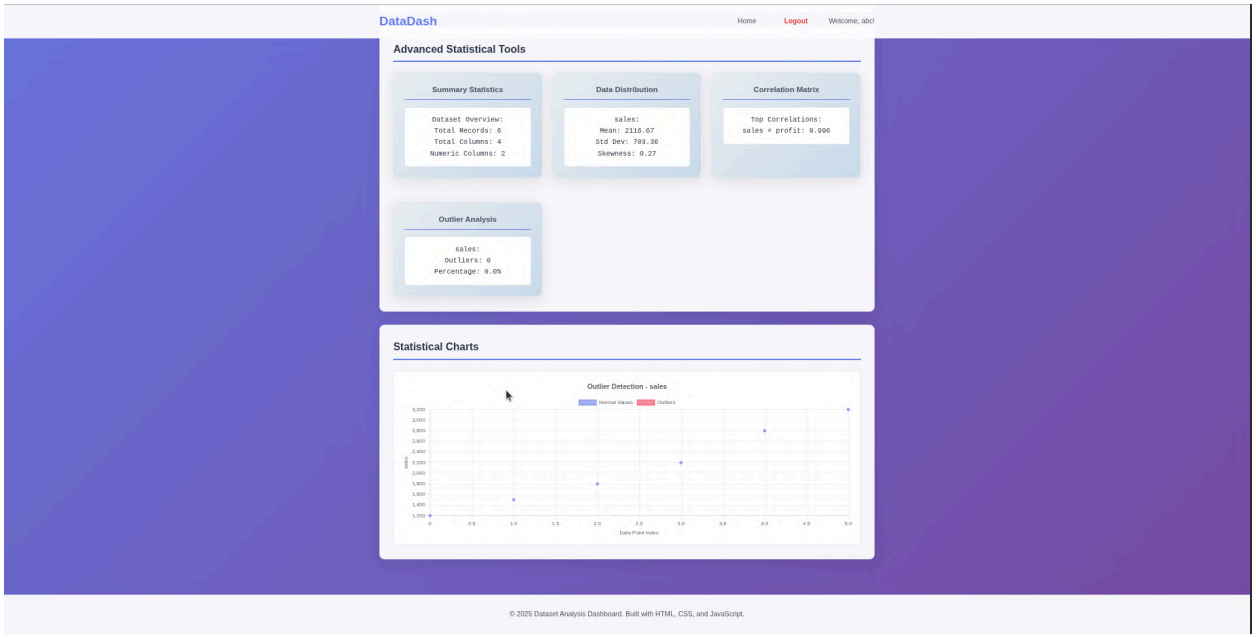
iii. Correlation Analysis





iv. Outlier Detection





7. Mongo DB Atlas Deployment