## Al Data Analyzer Progress Summary

Date: August 22, 2025

### What was done today

- Built and tested an Al Data Analysis Dashboard using Streamlit and multiple Python modules.
- The dashboard can analyze CSV/Excel files, show key statistics, detect data quality issues, and suggest useful charts automatically.
- Integrated Ollama AI models for deeper insights, chart recommendations, SQL suggestions, and business advice.
- Tested the system with two datasets:
  - Bank Dataset (for customer/marketing data)
  - Amazon Dataset (for product/sales data)
- The dashboard worked well and gave instant charts, summaries, and Al recommendations for both datasets.

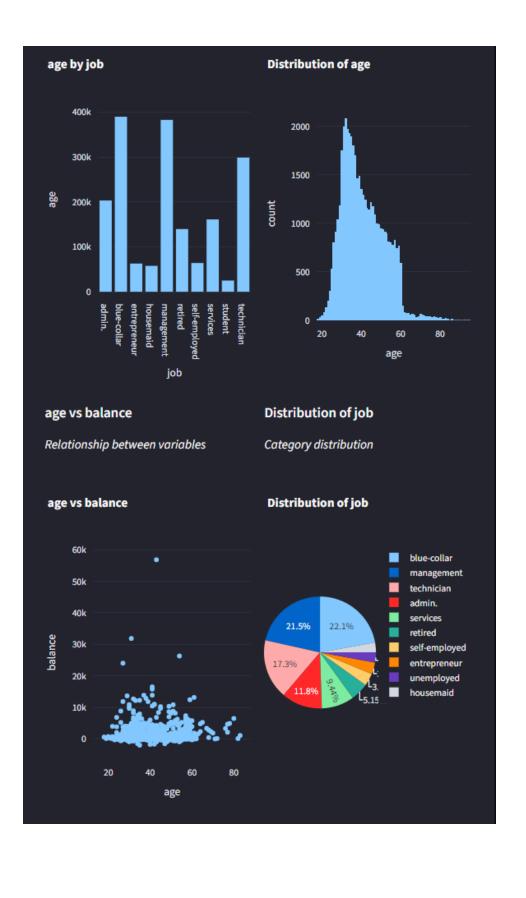
#### Features

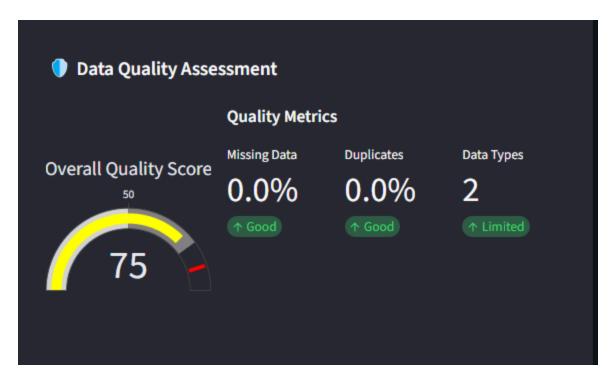
- Upload Data: Supports CSV, Excel, JSON, and Parquet.
- Automatic Analysis: Shows missing values, data types, summary stats, and data quality.
- Charts: Pie, bar, correlation, distribution, box plot, trends, time series, etc. chosen automatically for your dataset.
- Al Insights: Text recommendations for cleaning, business opportunities, and data issues.

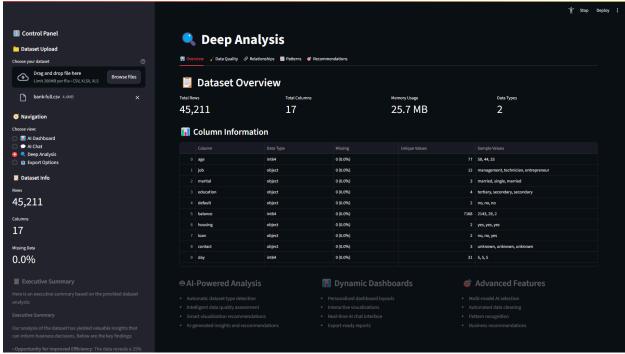
• Chat and SQL: You can ask questions or generate SQL queries for custom data needs.

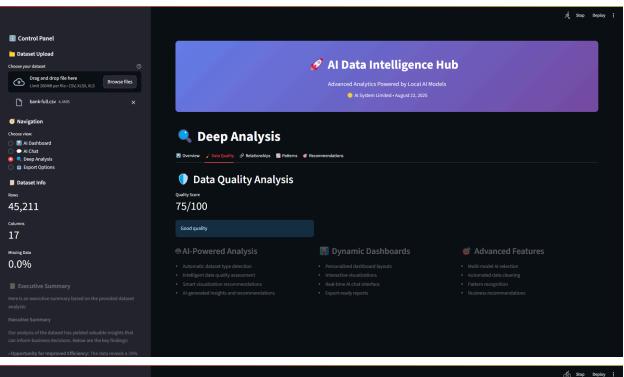
# **Example Outputs**

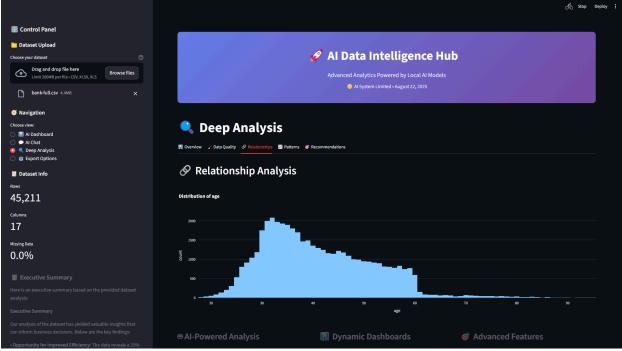
• Screenshot 1: Bank Dataset











## • Screenshot 2: Heart Disease Dataset

