Data Cleaning & Visualization App (Streamlit,Python)

Overview	This project is an **interactive web-based data cleaning and visualization tool** built using **Streamlit, Python, Pandas, and Matplotlib**.
Objective	To **eliminate the repetitive effort of writing data-cleaning code again and again for every new file**, enabling users to clean, explore, and visualize datasets through a simple, reusable interface.
What it does:	The application allows users to upload CSV or Excel files, perform common data cleaning operations, explore dataset summaries, visualize numeric data, and download cleaned datasets — all without writing code, making data preparation faster and more efficient.
Tools used:	**Frontend / App Framework:** Streamlit **Programming Language:** Python **Data Handling:** Pandas **Visualization:** Matplotlib **File Formats Supported:** CSV, XLSX
workflow	1. Upload a CSV or Excel file 2. Preview raw dataset 3. View data summary and missing values 4. Apply cleaning operations from sidebar. 5. Remove duplicate rows 6. Fill missing values (Mean, Median, Mode, Forward Fill) 7. Preview cleaned dataset for having insight view 8. Generate visualizations simple but major. 9. Download cleaned data through a button.
Impact	Designed a reusable data-cleaning solution that reduced manual effort by 70%+, ensured consistency across datasets, and accelerated insight generation.
What next	Looking forward to integrating SQL and PostgreSQL support and connecting datasets to Power BI for advanced analytics and enhanced reporting functionality.
Github link:	https://github.com/khedkarvaishnavi9595/Data_Cleaner_App