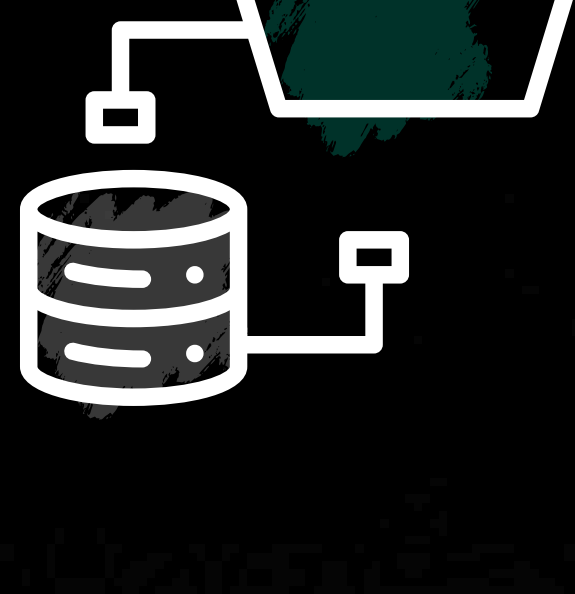


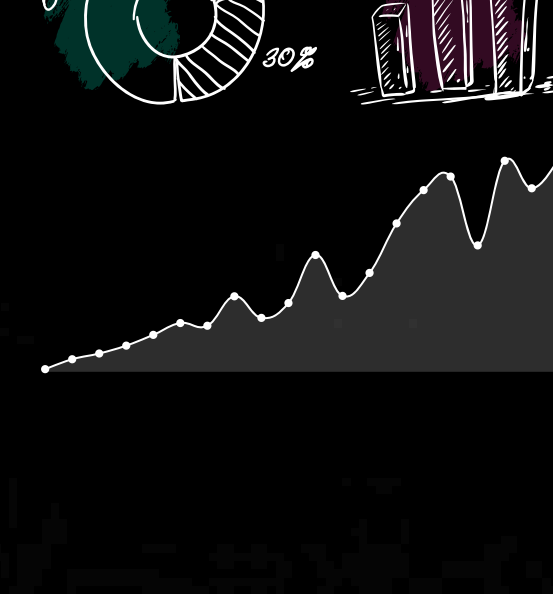
HR Dashboard Project

Project Plan

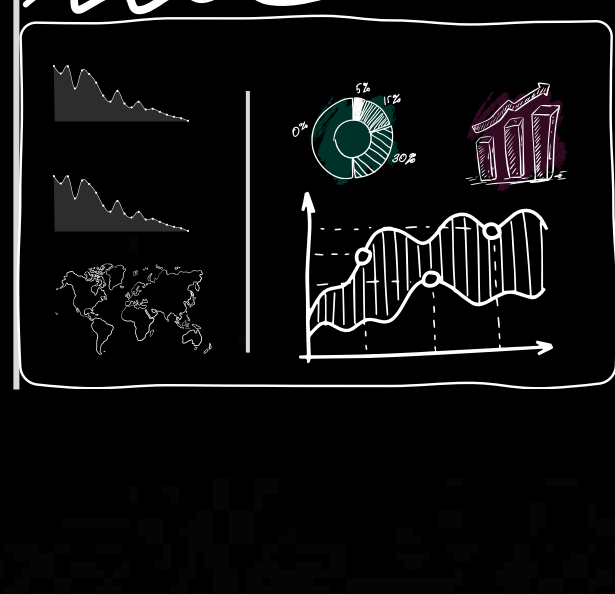
Building Data Source



Building Charts



Building Dashboards



Welcome!!

This project features an advanced data dashboard, utilizing Python’s Faker library to generate a realistic dataset and Tableau for powerful visualizations. Inspired by Baraa Khatib Salkini’s expert tutorial, this journey provided invaluable lessons in both data visualization and design. I’ve documented each step of the process, following Baraa’s guidance, to highlight the skills and techniques gained in crafting this dashboard.

Project Scenario - HR Dashboard

As an HR manager, I need a comprehensive dashboard to analyze human resources data. This dashboard should provide both a high-level summary for quick insights and detailed employee records for in-depth analysis.

Summary View

The summary view should be divided into three main sections: Overview, Demographics, and Income Analysis.

Overview

The Overview section should deliver key HR metrics at a glance, including:

- The total number of hired, active, and terminated employees.
- Visualization of hires and terminations over the years.
- Breakdown of employees by department and job title.
- Comparison of employees between headquarters (HQ: New York) and other branches.
- Geographic distribution of employees by city and state.

Demographics

The Demographics section should offer insights into the workforce’s composition, including:

- Gender ratio of the company.
- Visualize the distribution of employees by age group and education levels.
- Show the total number of employees within each age group.
- Show the total number of employees within each educational level.
- Correlation between employees’ educational backgrounds and their performance ratings.

Income Analysis

This section should focus on salary metrics to uncover patterns and discrepancies, including:

- Salary comparison across education levels for both genders to identify any discrepancies or patterns.
- Correlation between age and salary within departments.

Employee Records View

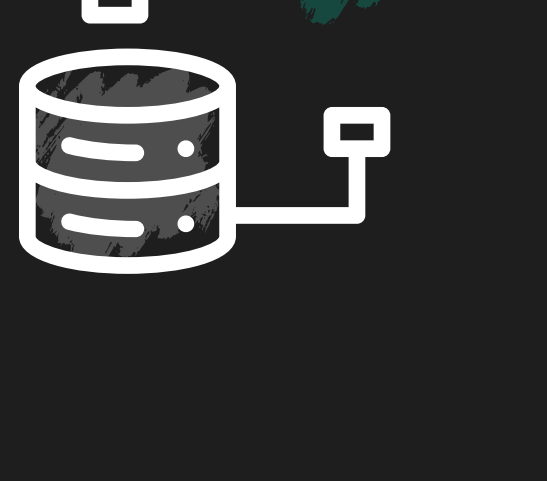
Provide a detailed, filterable list of employee records containing essential details such as:

- Name, department, position, gender, age, education, and salary.
- Filters to enable analysis based on any of these columns.

Project Steps

1 Building Data Source

- Create Data using **ChatGPT** and **Faker** Library
- Collect Data
- Connect Data
- Check Data Quality
- Check Data Types
- Understand & Explore Data



Project Steps

2 Building Charts

- Analyze Requirements & Choose Charts
- Initial Format of Worksheet
- Create Calculated Fields & Test
- Build Charts
- Format Charts



Project Steps

3 Building Dashboards

- Plan the Dashboard
 - Dashboard Mockup (Hand drawn)
 - Container Mockup (**Draw.io**)
- Create Container Structure
- Put All Together
- Fix Colours
- Fix Text
- Refine Charts
- Fix Spacing (Inner/Outer Spacing)
- Fix Tooltips
- Add Filters & Legends
- Add Logos & Icons (**Flaticon**)
- Add Info Section
- Create Background and Upload (**Figma**)

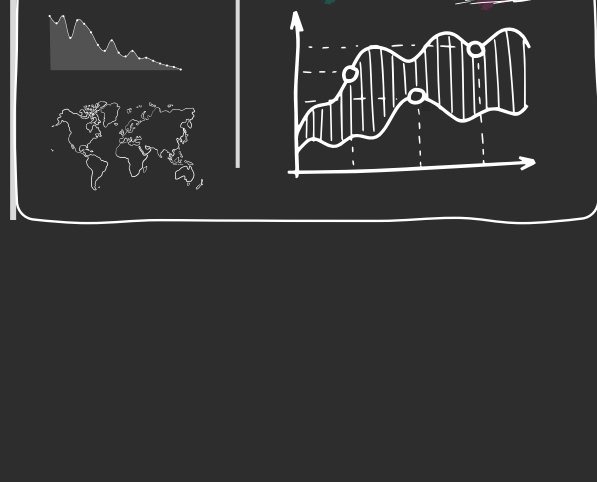
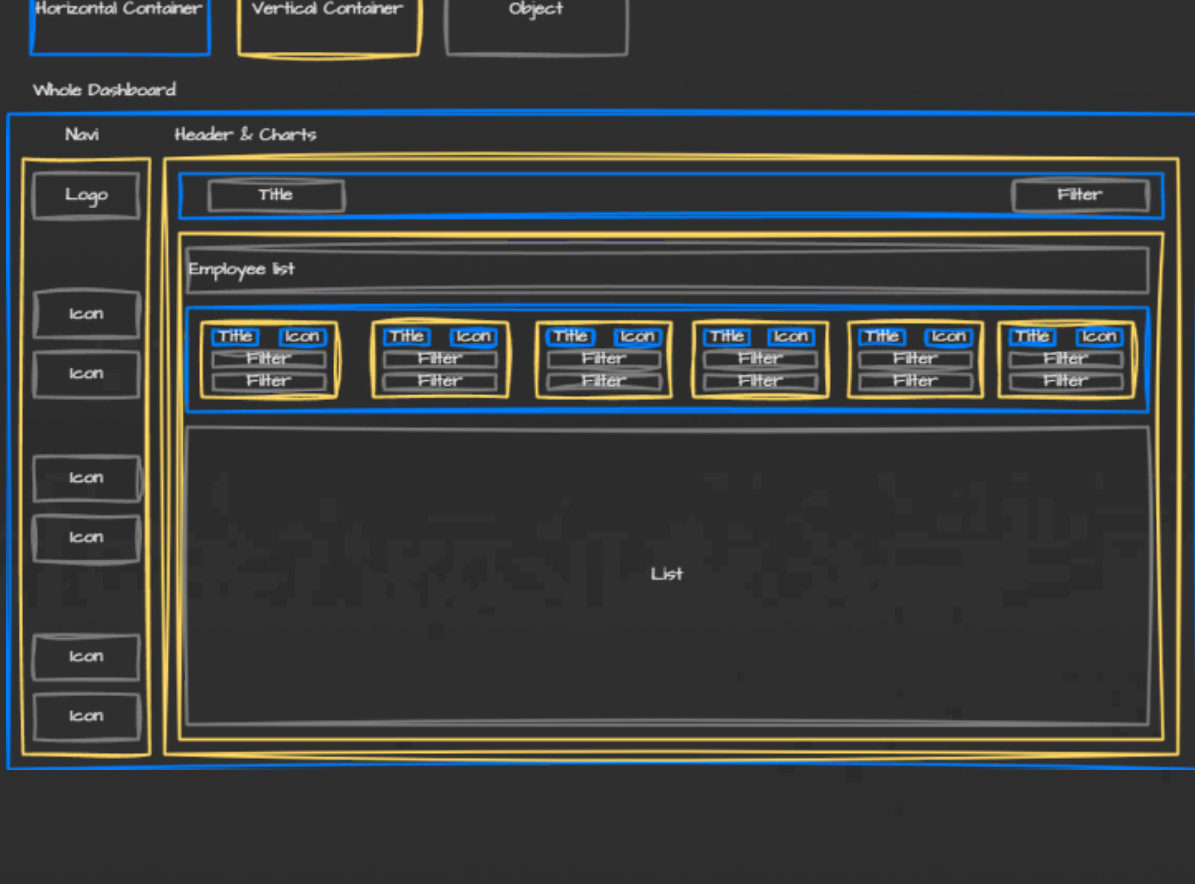
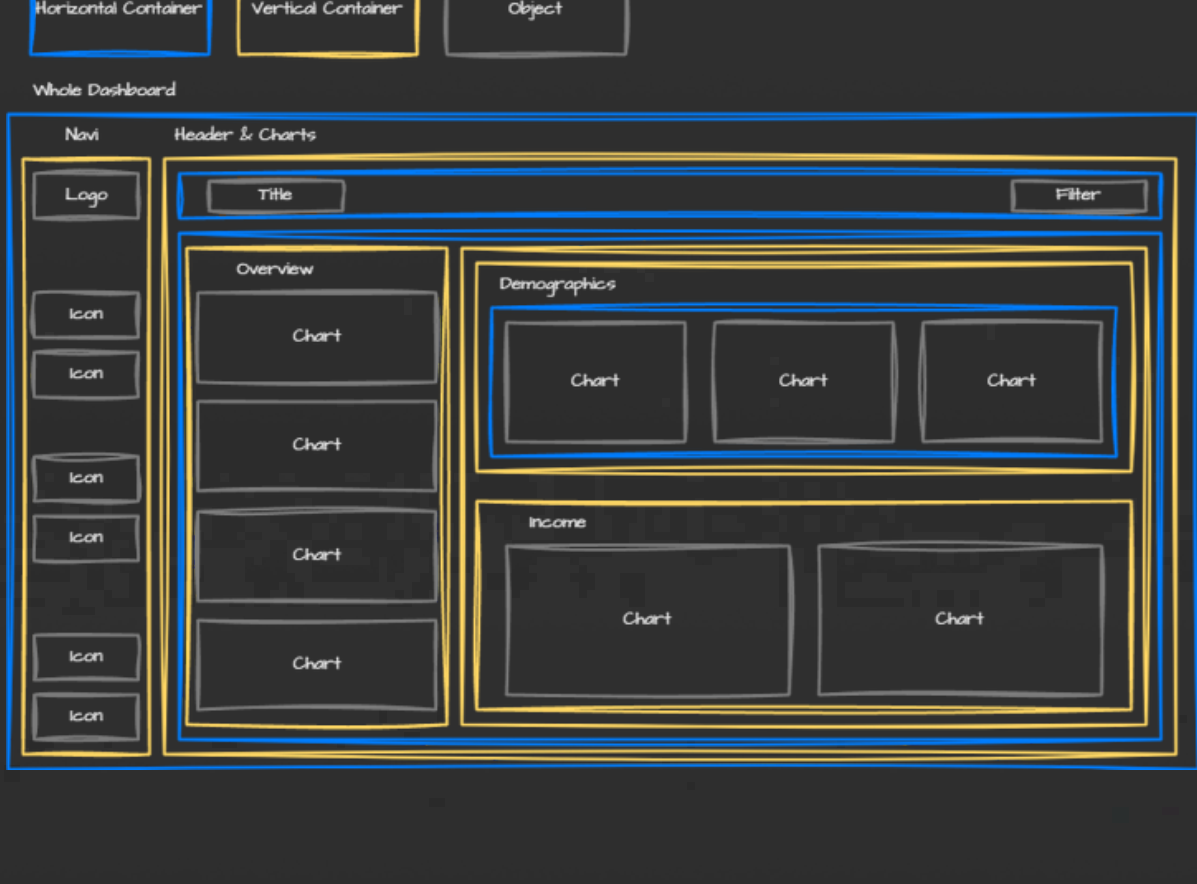


Tableau Container Mockup in Draw.io



Final Design



Lessons Learned

This project provided a clear, step-by-step roadmap for building a comprehensive dashboard in Tableau. It involved a multi-faceted approach, utilizing various tools and platforms to streamline the process:

- ChatGPT & Python’s Faker Library to generate a realistic dataset.
- Draw.io for creating container mockups to structure the layout.
- Flaticon for customizing icons to enhance the dashboard’s visual appeal.
- Figma to design a custom background template for a polished, professional look.
- And, of course, Tableau to bring everything together and visualize the data in an interactive, insightful way.

A special thanks goes to Baraa Khatib Salkini for his comprehensive tutorial, which has instantly leveled up my Tableau skills. You can check out his amazing content on his YouTube Channel “Data with Baraa”