Data Visualization: Assignment 4

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Design

Dashboard name and purpose

Title: Al and Data Science Salaries

Purpose: The purpose of the "Al and Data Science Salaries" dashboard is to provide an interactive platform for exploring global salary trends in Al, ML, and Data Science. It helps users:

- 1. Make Informed Career Decisions: Understand salary expectations based on experience, job title, and location.
- 2. Support Employers and Recruiters: Benchmark salaries to ensure competitive compensation.
- 3. Facilitate Geographic Comparisons: Compare salaries across different countries.
- 4. Enhance Data Transparency: Provide accessible, anonymized salary data for public use,

Tasks solved using the dashboard

1. Data Filtering and Interactive Controls:

- Users can filter salary data based on experience level, employment type, remote work ratio, and company size using interactive drop-down menus.
 - Users can also filter by job title for specific visualizations.

2. Salary Distribution:

- A histogram visualizes the distribution of salaries in USD, allowing users to see the spread and concentration of salaries within the selected filters.

3. Detailed Data Table:

- A table displaying the entire dataset with interactive features like sorting and filtering, providing detailed views of the salary data.

4. Experience Level Analysis:

- A boxplot showing the distribution of salaries by experience level, providing insights into how salaries vary with experience.

5. Employment Type Analysis:

- A bar chart showing the average salary by employment type, helping users understand how employment type affects salary.

6. Top Countries with Highest Salaries:

- A line plot that highlights the top 10 countries with the highest average salaries for a selected job title, providing geographical salary insights.

7. Gauge Metrics for Average and Median Salaries:

- Gauges displaying the average and median salary for a selected job title, offering a quick summary of central tendency measures.

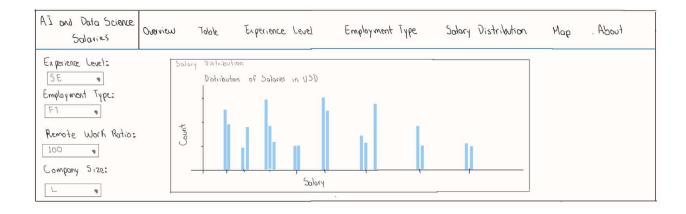
8. Geographical Salary Distribution Map:

- An interactive map showing average salaries by country for a selected job title, with circle markers sized by average salary, allowing users to visualize geographical salary differences.

9. Dataset Description:

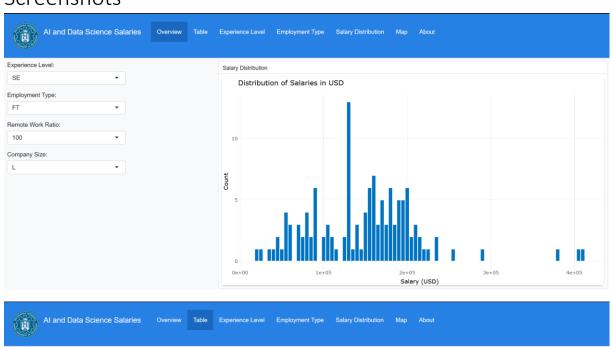
- A detailed description of the dataset columns, which provides context and helps users understand the data structure and the meaning of each variable.

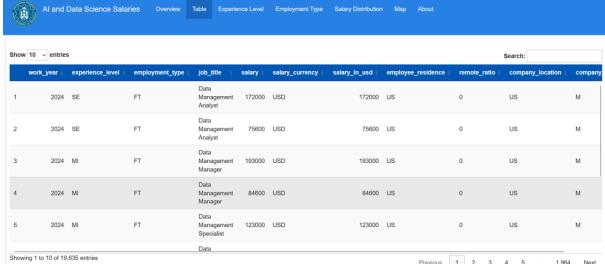
Sketches



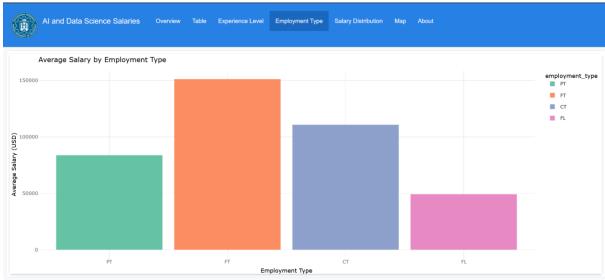
Implementation

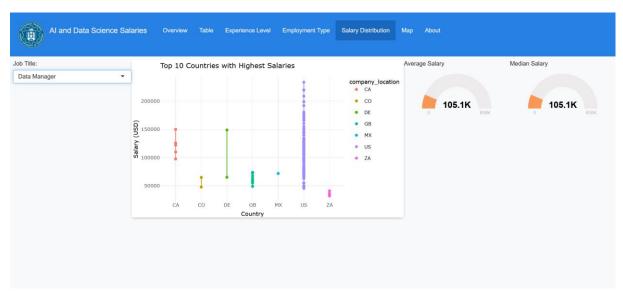
Screenshots

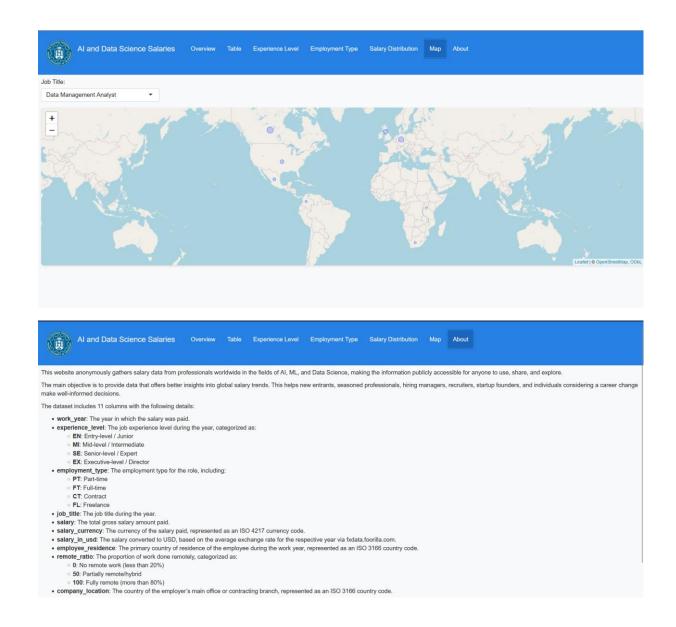












Github:

https://patrick102.shinyapps.io/flexdashboard/

Link to live demo:

https://github.com/patrickmolina1/Dashboard