

Data Science Workforce Insights Dashboard

Overview:

This project involves the creation of an interactive and insightful Tableau dashboard focusing on the analysis of a dataset containing information about data science employees. The dataset, sourced from an Excel sheet, comprises key columns such as employee ID, work year, experience level, employment type, job title, salary details, employee residence, remote work ratio, company location, and company size.

Key Features:

Salary Analysis:

A shape chart showcasing the average salary in USD based on employment type and experience level. This provides a quick overview of compensation trends within the data science workforce.

Residence Insights:

A visualization depicting the number of employees in the top 10 residences based on the count of employees. This helps in identifying popular locations within the dataset.

Company Size Distribution:

A donut chart displaying the distribution of companies based on their sizes (small, medium, large). This provides insights into the diversity of company sizes within the data science industry.

Experience Level Distribution:

A donut chart illustrating the distribution of employees based on their experience levels (entry level, expert, intermediate, senior). This helps in understanding the overall experience landscape of the workforce.

Employment Type Distribution:

Another donut chart showcasing the distribution of employees based on their employment types (full-time, contract, freelance, part-time). This offers insights into the variety of employment arrangements within the dataset.

Geographical Salary Analysis:

A filled map providing a geographical representation of the average salary in each country. This allows for a global perspective on compensation levels.

Job Title and Experience Analysis:

A table displaying the average salary breakdown by job title and experience level. This tabular representation provides detailed insights into compensation variations across different roles and experience levels.

Interactive Filters:

Two interactive filters have been incorporated for job title and company location. Users can choose specific job titles or company locations to dynamically update all charts in the dashboard accordingly.

Download Option:

A convenient download option has been included, enabling users to download the entire Tableau workbook in PowerPoint (PPT) format. This feature ensures seamless sharing and presentation of the insights derived from the dashboard.

Conclusion:

This Tableau dashboard offers a comprehensive and interactive exploration of the data science workforce, providing valuable insights into salary trends, geographical distributions, company characteristics, and more. The combination of visualizations, interactive filters, and a downloadable workbook enhances user experience and facilitates efficient data-driven decision-making.