Salary-Scope: Dashboard Report

A Power BI Dashboard Project

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Tools Used: **Power BI**

1. Introduction

The Salary-Scope Dashboard is a comprehensive data analytics and visualization project built using Power BI, Python, and Streamlit. The primary objective of this project is to provide insights into global job market trends particularly focusing on salary distributions, job roles, experience levels, employment types, company sizes, and remote work ratios.

The dashboard allows users to interactively explore various dimensions of job data and also predict salary based on selected inputs. The interactive Power BI visuals are designed to resemble professional corporate dashboards while ensuring usability and clarity.

2. Dataset & Methodology

The dataset used for this project is a cleaned version of the 'ds_salaries.csv' file, which contains job data from the global tech industry. It includes the following attributes:

- Experience Level (e.g., Entry-level, Mid-level, Senior-level, Executive-level)
- Employment Type (e.g., Full-time, Part-time, Contract, Freelance)
- Job Title
- Company Size (Small, Medium, Large)
- Remote Work Ratio (percentage)
- Salary in USD

The raw dataset was first preprocessed in Python using pandas. Categorical fields were encoded using LabelEncoder, and the final processed dataset was saved as

`salary_scope_analytics.csv` for use in Power BI.

3. Visualizations & Insights

The Power BI dashboard features a variety of data visualizations to derive insights:
- Top 10 Highest Paying Job Titles: A horizontal bar chart showing average salary by job title.
- Salary by Experience Level: A box plot visualizing salary distributions across experience levels.
- Average Salary by Company Size: A clustered bar chart comparing salaries across company sizes.
- Salary vs Remote Work Ratio: A scatter plot highlighting how remote flexibility affects salaries.
- Distribution Pie Charts: Representing shares of company sizes or job roles.
All visuals are interactive, enabling filtering and cross-highlighting based on slicers (e.g., Experience Level, Employment Type).

4. Conclusion & Future Scope

The Salary-Scope Dashboard provides clear and interactive insights into salary trends across multiple job dimensions. It empowers users—be they job seekers, analysts, or HR professionals—to make informed decisions based on real-world data.

In the future, this project can be extended by:
- Integrating live job data APIs for real-time insights.

- Including more geographic filters (e.g., country, region).
- Deploying the Power BI dashboard to the cloud (Power BI Service) for public access.

This project demonstrates how Python-based preprocessing and Power BI visualizations can be effectively combined to build compelling data analytics applications.