Employment Analysis of Data and AI Related Domains

Business Problem:

The problem is the lack of readily available information on factors like salaries, location, experience level, employment type, and company size for individuals seeking Data and AI related jobs. This lack of information makes it challenging for job seekers to make informed decisions about their career paths. To solve this problem, there is a need to conduct an analysis that provides comprehensive insights into these factors, enabling aspiring professionals to navigate the job market more effectively and plan their careers strategically.

Assumptions:

- The analysis assumes the dataset used is representative of data and AI related job postings.
- The data is assumed to be presented in a consistent currency (USD) and collected within a recent time frame.

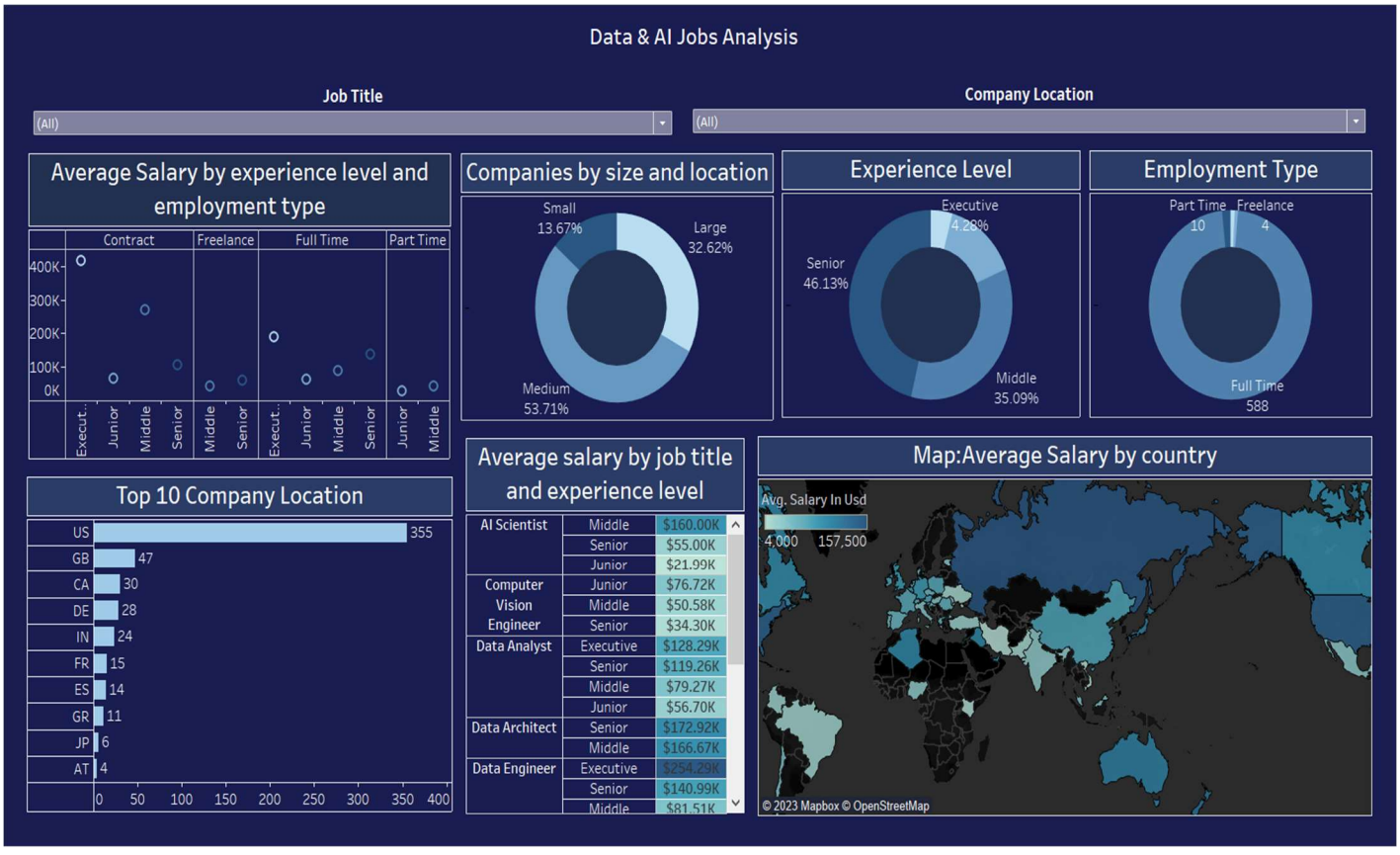
Purpose:

- The objective is to equip individuals seeking Data and AI jobs with the necessary information to make informed decisions about their career paths.
- The analysis seeks to identify trends and patterns related to job opportunities in the Data and AI fields, helping job seekers understand market dynamics.

Data Cleaning & Transformation (Python – Jupyter Notebook):

- Checked for null values/empty cells.
- Replaced abbreviated attribute values with full words for a clearer understanding of the data and for clearer visualizations.

Visualization (Tableau):



Analysis & Suggestions:

- Contract-based employment tends to provide higher salaries in Data and AI domains compared to freelance, full-time, and part-time.
- Medium-sized companies are more prevalent in the industry, offering a balance of growth and stability.
- There is a higher demand for senior-level positions, so developing advanced skills and experience is beneficial for career progression.
- Full-time employment is in greater demand, so prioritize these positions to align with market trends.
- Compare average salaries by country to identify potential locations with higher compensation.