Data Professional Survey Analysis Project Documentation

Overview:

Embarking on the Data Professional Survey Analysis project, we delve into the responses of 504 participants to uncover trends and dynamics within the data professional community. Exploring aspects such as age distribution, job satisfaction, and salary variations, this project seeks to provide a nuanced perspective on the landscape of data professions.

Steps in Project:

- Raw Data Overview
- Connecting Data with Power BI
- Data Cleaning
- Data Processing
- Data Visualization/ Charts Design
- Report/ Dashboard Building
- Insights

Goal:

Our goal is to understand the challenges data professionals face and raise awareness about job satisfaction and gender pay differences. We want to highlight popular job titles and preferred programming languages to help professionals and organizations make positive changes in how they work and how they pay their employees.

Insights:

➢ **Survey Demographics:**
- Survey Participants: 504
- Average Age: 29.89

➢ **Job Satisfaction Ratings:**
- Work/Life Balance Happiness: Rated at 5.72 out of 10
- Salary Satisfaction: Rated at 4.26 out of 10

➢ **Gender-based Salary Insights:**
- Male professionals have an average salary of $54.39k, representing 49.33% of the total, while female professionals earn $55.87k, making up 50.67% of the total.

➢ **Salary Disparities by Job Title:**
  Jobs in the data field, particularly Data Scientist, Data Engineer, and Data Analyst, command higher salaries. The top job titles include:
- Data Scientist: $94.95K
- Data Engineer: $67.22K
- Data Analyst: $55.62K
- Data Architect: $48K
- Database Developer: $36K

➢ **Preferred Programming Languages:**
- Analysis reveals Python is the most favourite language among students and data professionals, followed by R, C/C++ also ranks high in preferences.

➢ **Geographical Distribution:**
- Geographically, the majority of survey takers reside in the United States (219), followed by 55 in India, 31 in the UK, 25 in Canada, and 174 in other nations.

Conclusion:

Our Data Professional Survey Analysis uncovers crucial insights into job satisfaction, salary dynamics, and preferences within the data professional community.

The identified gender-based salary gaps and disparities across job titles emphasize the need for industry-wide discussions and initiatives.

With a focus on promoting inclusivity and fostering positive workplace changes, our findings provide a foundation for informed decision-making and improvement in the data professional landscape.

This project aims to inspire meaningful dialogue and action towards creating a more equitable and satisfying environment for data professionals globally.