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PROJECT ON

ENGINEERING GRADUATES EMPLOYMENT ANALYSIS

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ABOUT ME

- Hello My Name is Yash Ashok Shirsath
- I am Motivated and Detail-Oriented Entry-level Data Analyst with a solid foundation in Data Analysis Techniques and Tools.
- I am pursuing my graduation in University of Mumbai
- As a passionate and dedicated data analyst, I thrive on transforming complex datasets into actionable insights that drive informed business decisions. With a strong foundation in data analysis and a keen eye for detail,
- I specialize in extracting valuable information from raw data and presenting it in a clear and concise manner.
- Throughout my career, I have honed my skills in data cleaning, data visualization, statistical analysis, and predictive modelling.
- I am proficient in various programming languages such as Python and R, and have experience working with SQL databases.
- Follow Me on LinkedIn - www.linkedin.com/in/yash-shirsath-cr49
- Follow & Visit My GitHub - https://github.com/Yash22222
- Visit My Portfolio - https://yashashokshirsath.netlify.app/

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BUSINESS PROBLEM

- The business problem revolves around understanding the employment outcomes of engineering graduates to inform decision-making processes in the engineering industry. Specifically, the project aims to analyse salary trends, gender-based disparities in specialization preferences, and other relevant factors affecting employment outcomes.

USE CASE DOMAIN UNDERSTANDING

- Understanding the employment landscape for engineering graduates is crucial for various stakeholders, including educational institutions, recruiters, and policymakers. Analysing employment data can help identify trends, disparities, and areas for improvement in the engineering workforce.

OBJECTIVE OF THE PROJECT

- The objective of the project is to analyse a dataset containing employment outcomes of engineering graduates. This includes verifying claims regarding salary ranges for specific engineering roles, investigating relationships between gender and specialization preferences, and gaining insights into factors influencing employment outcomes.

WEB SCRAPING DETAILS

- **Web scraping was not required for this project as the dataset was sourced from the Aspiring Minds Employment Outcome 2015 (AMEO).**

SUMMARY OF THE DATA

- **The dataset contains around 40 independent variables and 4000 data points, primarily focusing on engineering graduates. It includes information such as salary, job titles, gender, specialization, college GPA, and more.**

EXPLORATORY DATA ANALYSIS

- **DATA CLEANING STEPS**

1. Handling missing values
2. Removing duplicates
3. Converting data types as needed

- **DATA MANIPULATION STEPS**

1. Filtering data based on specific criteria (e.g., job titles, degree)
2. Creating new features or aggregating existing ones

- **UNIVARIATE ANALYSIS STEPS**

1. Visualizing distributions of individual variables (e.g., histograms, boxplots)
2. Identifying outliers and handling them as necessary

- **BIVARIATE ANALYSIS STEPS**

1. Exploring relationships between variables (e.g., scatter plots, bar plots)
2. Analysing correlations and associations between variables

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KEY BUSINESS QUESTION

- The key business question revolves around understanding the factors influencing employment outcomes for engineering graduates, including salary trends, gender disparities, and specialization preferences.

CONCLUSION

- The analysis provided insights into employment outcomes for engineering graduates, highlighting salary trends, gender-based disparities, and other relevant factors. Further research and analysis can inform decision-making processes in the engineering industry.
- The analysis found an average salary of 4,60,000 LPA for Computer Science Engineering fresh graduates in specific roles. Initial insights suggest gender-based differences in specialization choices, prompting further investigation. Key research areas include examining specialization's impact on salary and regional employment disparities. Additionally, exploring gender gaps in salary negotiation and long-term career growth trajectories can inform efforts to promote diversity in engineering. Overall, the analysis provides insights into employment outcomes for engineering graduates and avenues for future research.

THANK YOU

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