REAL TIME JOB ANALYTICS PORTAL

INTERNSHIP REPORT

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INTRODUCTION

This report highlights my internship experience with NullClass, where I participated in a project focused on building a real-life job portal using a dataset from Kaggle. The internship included both training and project work, emphasizing data analysis, visualization, and web development.

BACKGROUND

NullClass offers training and internship programs in data analytics, combining theoretical knowledge with practical experience. The objective of this internship was to enhance my skills in data analysis, web development, and visualization through the development of a job portal. The project was divided into two phases: training and practical tasks.

LEARNING OBJECTIVES

1. Understand the process of data collection and cleaning

2. Gain experience in Python (pandas, numpy) for data manipulation.
   Learn basic web development using HTML and VS Code.

3. Develop Tableau skills for data visualization.
   Apply data analytics and web development to real-world projects.

ACTIVITIES AND TASKS

TRAINING PERIOD

- Data Collection: Downloaded a job description dataset from Kaggle.
- Data Exploration: Performed basic operations such as loading the dataset, renaming columns, and inspecting the data using commands like .head(), .describe(), and .info().
- Data Cleaning: Identified and removed missing values using .dropna().
- Data Visualization in Tableau: Uploaded the cleaned dataset to Tableau and created eight visualizations focusing on:
  Company, Country, Gender Preferences, Qualifications, Work Type,
  Skills, Experience and Salary Range

ACTIVITIES AND TASKS

INTERNSHIP PERIOD

- Task 1: Created a chart showing the relationship between Job Portal and Company.
- Task 2: Developed a complex chart for the top 10 companies hiring Data Engineers and Data Scientists with specific conditions such as excluding Asian countries, female preference, and time constraints.
- Task 3: Visualized job details for India and Germany based on qualifications, work type, salary, and specific job titles, using color coding to differentiate between the two countries.
- Web Development: After completing the data analysis tasks, I developed a job portal using HTML in VS Code. This portal presented all the visualizations and insights from the project, providing a user-friendly interface to display the results.

SKILLS AND COMPETENCIES

Phase 1

Data Analysis:
Gained proficiency in Python libraries such as pandas and numpy for data manipulation.

Phase 2

Data Visualization:
Enhanced Tableau skills by creating detailed and complex charts.

Phase 3

Web Development:
Learned the basics of HTML and web design in VS Code.

Phase 4

Problem Solving:
Managed complex filtering and visualization requirements effectively.

FEEDBACK AND EVIDENCE

- Positive feedback was received from supervisors for both the data visualization and the web portal presentation.

- The web portal I developed provided an intuitive platform to showcase the job market analysis, enhancing the overall presentation of the insights.

CHALLENGES AND SOLUTIONS

Challenge I: Handling missing data and inconsistencies in the dataset.

Solution: I used data cleaning techniques in pandas to handle null values and ensure data readiness for visualization.

Challenge 2: Creating visualizations with complex filtering conditions

Solution: I leveraged Tableau's advanced filtering options to meet the task requirements accurately.

Challenge 3: Presenting the results in an accessible and appealing format on a web platform..

Solution: Developed an HTML-based job portal in VS Code to showcase the insights effectively.

OUTCOMES AND IMPACT

- Successfully created a fully functional job portal dashboard, highlighting insights into company hiring practices and job market trends.

- Gained valuable experience in both data analytics and web development, greatly improving my ability to present data-driven insights to a broader audience.

CONCLUSION

This internship provided me with a hands-on learning experience that significantly enhanced my skills in data analysis, visualization, and web development. The combination of technical and presentation skills developed through this project will be invaluable in future professional roles.

THANK YOU

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