DATA ANALYST INTERNSHIP REPORT

Submitted by

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INTRODUCTION

- My internship at Beau Roi Technologies Pvt. Ltd. provided an excellent opportunity to gain practical exposure in the field of Data Analytics. The company operates in the service industry, offering innovative technological solutions to clients across different sectors.

- During my tenure, I was guided by my mentor, Ms. Suman Kumari, who provided valuable insights into real-world data analysis processes.

- The internship allowed me to work on multiple datasets, utilize various tools, and create visualizations and dashboards for meaningful data interpretation.

OBJECTIVE

The primary objective of this internship was to:

- Enhance my practical skills in Exploratory Data Analysis (EDA), visualization, and dashboard creation.

- Gain experience with different data analytics tools such as Python, MySQL, Looker Studio, and Power BI.

- Understand the end-to-end process of data cleaning, transformation, analysis, and presentation.

- Work on real-world datasets to solve analytical problems and present actionable insights.

TOOLS AND TECHNOLOGIES USED ON

- Python – For EDA, data cleaning, aggregation, relation analysis, and visualization.

- MySQL – For database management, EDA, and relation analysis on structured datasets.

- Looker Studio – For creating interactive dashboards and visual reports.

- Power BI – For building business dashboards and visualizations.

- Microsoft Excel / Google Sheets – For initial data exploration and validation.

- Kaggle Datasets – Used as sources for project data.

KEY RESPONSIBILITES

During the internship, my responsibilities included:

- Performing EDA on multiple datasets to identify patterns, trends, and anomalies.

- Data cleaning and preprocessing for accurate analysis.

- Creating visualizations to represent data insights effectively.

- Conducting relation and variance analysis between variables.

- Building interactive dashboards in Looker Studio and Power BI.

PROJECTS WORKED ON

1. Used Cars Dataset (Python)
   - Performed EDA and visualizations on a Kaggle dataset to analyze pricing patterns and car specifications.

2. Heart Disease Dataset (Python)
   - Cleaned and aggregated the dataset, followed by visualization to study health parameters influencing heart disease risk.

3. E-Commerce Dataset (Python)
   - Conducted EDA, cleaning, and relation analysis to understand customer behavior and product trends.

4. Road Accident Dataset (MySQL & Python)
   - Used MySQL Workbench for EDA and relation analysis, followed by Python visualizations to identify accident-prone areas.

5. Mushroom Dataset (MySQL & Python)
   - Performed variance and relation analysis using MySQL and created Python visualizations to classify edible vs. poisonous mushrooms.

6. Looker Studio Dashboards
   - Created interactive dashboards, including a YouTube Video Analysis Report, Social Media Analytics Dashboard, and LinkedIn Post Analysis Report.

7. Power BI Dashboards
   - Built dashboards for an E-Retail Store and other business datasets, exploring visualization techniques and KPIs.

KEY LEARNING

From this internship, I gained:

- Proficiency in EDA techniques and visualization using Python libraries.

- Practical knowledge of SQL queries for data analysis.

- Ability to design and present data through Looker Studio and Power BI dashboards.

- Experience in handling real-world datasets with missing values and inconsistencies.

- Improved problem-solving skills and an understanding of business-oriented data analytics.

- Exposure to collaborative work in a professional environment.

CONCLUSION

- My internship at Beau Roi Technologies Pvt. Ltd. was an enriching experience that bridged the gap between academic learning and industry application.

- I had the opportunity to work with diverse datasets, apply analytical techniques, and present data-driven insights through interactive dashboards.

- I am grateful to my mentor, Ms. Suman kumari, and the company for their guidance, support, and the platform to enhance my skills in the field of Data Analytics.