**INTERNSHIP REPORT**

**Company Name :** VDart

**Name:** Chinna Raja P

**Role :** Data Analyst Intern

**Mentor** : Anubharathi P

**Internship Period :**  1 Month

**Date of submission**: 02 sep 2024

**INTERNSHIP OVERVIEW:**

During my internship at Vdart, I had the opportunity to gain hands-on experience across multiple domains, including Data Analytics, SQL, Excel, Power BI, Tableau, and Python. This internship provided a comprehensive learning experience that allowed me to apply theoretical knowledge in practical scenarios and contribute to real-world projects.

**PROJECTS COMPLETED:**

1. **End To End HR and Finance Analysis:**
   * **Objective:** Analyze Hr and finance data to derive insights and develop visualizations.
   * **Approach:**

♣ Cleaned and preprocessed data for better processing and accuracy.

♣ Designed and implemented interactive visualizations with PowerBI.

* + **Outcome:** Delivered a dashboard that provided valuable insights about HR employees.

1. **Power BI Dashboard Creation:**
   * **Objective:** To create an interactive dashboard that visualizes viewers and subscriptions dataset .
   * **Approach:** Transformed the data in Power Query, and built a series of interactive visualizations. I used DAX for advanced calculations and optimized the data model for performance.
2. **Data Cleaning End-to-End Project:**
   * **Objective:** To build a queries that automates the process of data cleaning and presents the cleaned data for further analysis.
   * **Approach:** I used python to make a Script for data cleaning process and find the null values or missing values, Visualize the dataset to convey in the easy form with the help of pie chart, bar graph, line chart, donut chart, etc….
   * **Outcome:** The application streamlined the data cleaning process, significantly reducing the time required to prepare data for analysis.

**DOMAINS COVERED:**

1. **Data Analytics:**
   * **Data Cleaning and Preparation:** I learned the importance of clean data in the analytics process. I applied various techniques to clean and preprocess raw data, making it suitable for analysis.
   * **Data Analysis:** I used statistical methods and data analysis techniques to derive insights from datasets. This included summarizing data, finding patterns, and identifying trends that could be used to inform decision-making.
2. **Basics of SQL:**
   * **SQL Fundamentals:** I covered the basics of SQL, including data manipulation, querying, and managing databases. This included writing queries to select, insert, update, and delete data in relational databases.
3. **Python :**
   * **Python Platforms:** I explored the basics of leading Python platforms, including Pandas, Matplotlib, Seaborn, Numpy. I learned about their core services.
   * **Python Script:** I gained an understanding of essential Script for data cleaning using a Jupyter notebook.
4. **Power BI:**
   * **Data Visualization with Power BI:** I developed skills in creating interactive and visually appealing dashboards using Power BI. This involved importing data from various sources, transforming it using Power Query, and creating visualizations to convey insights effectively.
   * **Dashboard Creation:** I completed a project focused on building a comprehensive dashboard that provided actionable insights. This included using various visualization types like charts, graphs, and maps, and configuring interactive features like slicers and drill-throughs.
   * **DAX and Data Modeling:** I learned to use Data Analysis Expressions (DAX) for creating custom calculations and measures. I also worked on data modeling techniques to establish relationships between tables for more complex analyses.

**SKILLS GAINED:**

* + Data visualization with Tableau, PowerBI.
  + Script writing with Python.
  + Data analysis Using excel.
  + Creating Data about the HR resume process in Excel.
  + Basics about SQL.
  + Gain basic knowledge about Human Resource management system (HRMS).

**CONCLUSION:**

The internship at VDart was an enriching experience that allowed me to develop a strong foundation in data analytics, data visualization with PowerBI and Tableau, script writing using python, data cleaning using Python, Data analysis using Excel . The projects I completed not only enhanced my technical skills but also provided me with valuable experience in real-world problem-solving. This experience has prepared me well for future challenges in the technology industry.





