INTERNSHIP PROGRAM Data Analysis

Introduction & Internship Journey Presented by **PARTHA DEY**. This presentation encompasses my experiences as an intern, sharing insights into the realm of data analysis and its applications.

Presented by PARTHA DEY

This presentation summarized my data analysis internship journey, covering my roles, responsibilities, key projects, technologies used, and the challenges I faced and overcame. Thank you for your time and attention.

About Me

Presented by PARTHA DEY

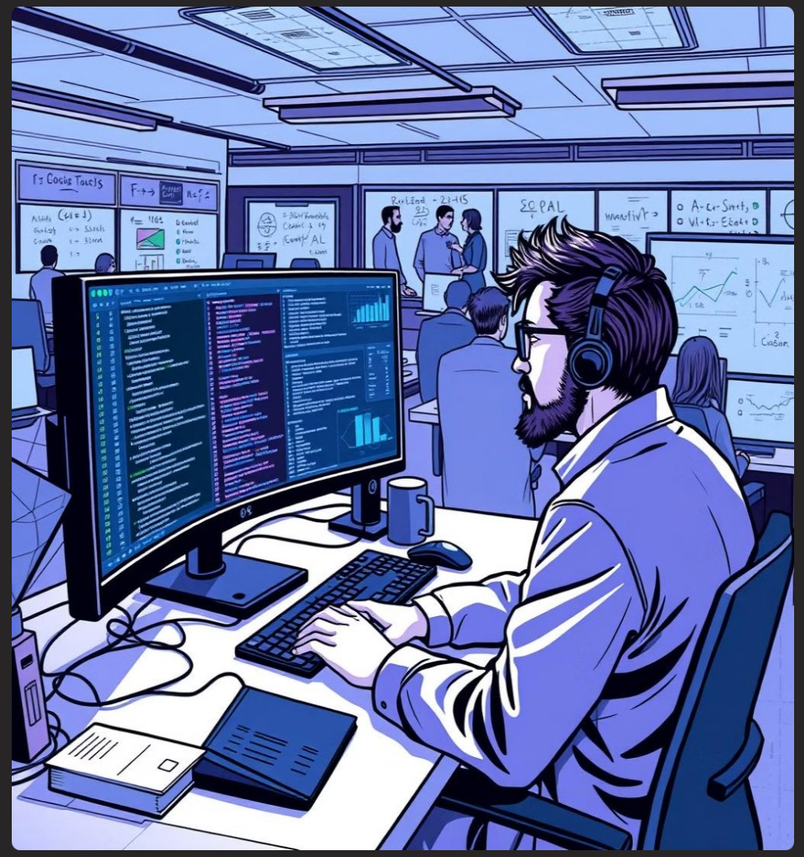
I am **Partha Dey**, a passionate data analyst committed to extracting valuable insights from data. My educational background combined with practical experience has shaped my skills in data analysis and visualization.

Background

Educational background in data science and analytics. Proficient in **Python, SQL, Tableau, and Excel**.

Skills in statistical analysis. Passionate about leveraging data for insights.

Internship Overview



Internship Program

The Data Analysis Internship provided hands-on experience in analyzing complex datasets. Interns engaged in projects utilizing AI, machine learning, and data analytics to extract actionable insights and support business decision-making.

Duration

The internship spanned **6months**, focusing on intensive skill development and practical exposure to data analysis frameworks. This period facilitated meaningful contributions to ongoing projects with tangible outcomes.

Company Profile

IT specializes in delivering innovative AI, ML, and data analytics solutions. The company equips businesses with the tools to harness the power of data and drive efficiencies across various sectors.

Role & Responsibilities

- Collecting and cleaning data from various sources.
- Performing exploratory data analysis to identify trends and patterns.
- Developing statistical models for prediction and forecasting.
- Creating data visualizations and dashboards to communicate insights.
- Generating reports and presenting findings to stakeholders.

Detailed TASK LIST

To complete this internship, you will have the chance to choose any 2 of 3 levels: Level 1, Level 2, or Level 3. We've designed these levels to cater to your convenience and ensure an engaging and rewarding experience. Additionally, the successful completion of Level 3 (any 2 task out of 3) will further enhance your chances of receiving a stipend

Level 1

1 Task 1 - Top Cuisines:

- Determine the top three most common cuisines in the dataset.
- Calculate the percentage of restaurants that serve each of the top cuisines.

2 Task 2 - City Analysis:

- Identify the city with the highest number of restaurants in the dataset.
- Calculate the average rating for restaurants in each city.
- Determine the city with the highest average rating.

3 Task 3 - Price Range Distribution:

- Create a histogram or bar chart to visualize the distribution of price ranges among the restaurants.
- Calculate the percentage of restaurants in each price range category.

4 Task 4 – Online Delivery:

- Determine the percentage of restaurants that offer online delivery.
- Compare the average ratings of restaurants with and without online delivery.

Level 2

1 Task 1 - Restaurant Ratings :

- Analyze the distribution of aggregate ratings and determine the most common rating range.
- Calculate the average number of votes received by restaurants.

2 Task 2 - Cuisine Combination :

- Identify the most common combinations of cuisines in the dataset.
- Determine if certain cuisine combinations tend to have higher ratings.

3 Task 3 - Geographic Analysis :

- Plot the locations of restaurants on a map using longitude and latitude coordinates.
- Identify any patterns or clusters of restaurants in specific areas.

4 Task 4 - Restaurant Chains :

- Identify if there are any restaurant chains present in the dataset.
- Analyze the ratings and popularity of different restaurant chains.

Level 3

1 Task 1 - Restaurant Reviews:

- Analyze the text reviews to identify the most common positive and negative keywords.
- Calculate the average length of reviews and explore if there is a relationship between review length and rating.

2 Task 2 - Votes Analysis:

- Identify the restaurants with the highest and lowest number of votes.
- Analyze if there is a correlation between the number of votes and the rating of a restaurant.

3 Task 3 - Price Range vs. Online Delivery and Table Booking:

- Analyze if there is a relationship between the price range and the availability of online delivery and table booking.
- Determine if higher-priced restaurants are more likely to offer these services.

Conclusion & Future Goals

The internship yielded valuable insights into the mechanics of data analysis and its real-world applications. This experience lays a solid foundation for future growth, focusing on advanced analytics and machine learning applications.