**INTERNSHIP REPORT**

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**Project:** Learn to Build Real-Time Twitter Analytics Dashboard using Power BI

**Company Name:** NullClass EdTech Private Limited

**Internship Duration:** 1 Month (Started from January 2025)

**Introduction**

I have successfully completed a one-month internship at NullClass EdTech Private Limited, a leading training and internship provider. During this internship, I worked on the Data Analytics project, specifically focused on building a real-time Twitter Analytics Dashboard using Power BI.

**Background**

NullClass EdTech Private Limited specializes in providing training and internships to help students gain real-world experience. They offer programs in various fields, including Web Development, Data Science, Data Analytics, Android Development, Blockchain, and Cybersecurity projects.

**Learning Objectives**

The primary learning objectives of my internship were:

* Gain hands-on experience with Power BI for data visualization.
* Enhance my knowledge of DAX queries.
* Develop problem-solving skills through real-world projects.

**Activities and Tasks**

During my internship, I worked on building a real-time Twitter Analytics Dashboard using Power BI. To host the dashboard, I used Netlify, a web platform for deploying and managing web applications.

I was assigned three tasks as part of the internship:

1. **Top Engagement Chart:** Develop a chart displaying tweets with the highest engagement rates (top 10%). Include tweets that received more than 50 likes and were posted on weekdays. This graph should only be visible between 3 PM and 5 PM IST. Additionally, the tweet character count should be below 30.
2. **Scatter Chart Analysis:** Plot a scatter chart to analyze the relationship between media engagements and media views for tweets that received more than 10 replies. Highlight tweets with an engagement rate above 5%. This graph should only be visible between 6 PM and 11 PM IST, with the tweet date being an odd number and the word count above 50.
3. **Comparative Visualization:** Develop a visualization comparing the number of replies, retweets, and likes for tweets with media engagements greater than the median value. Include a filter for tweets posted between June and August 2020. This graph should be visible only between 3 PM and 5 PM IST and 7 AM to 11 AM. Additionally, the tweet date should be odd, media views should be even, tweet character count should be above 20, and tweets containing the letter 'S' should be excluded.

**Skills and Competencies**

This internship helped me develop and enhance my skills in:

* Data visualization using Power BI.
* Writing DAX queries to solve complex problems.
* Gaining experience in real-world problem-solving.

**Feedback and Evidence**

I received excellent mentor support throughout the internship. A dedicated WhatsApp group allowed me to raise any issues I encountered, where I received guidance to overcome challenges.

My ability to work independently on Power BI project tasks resulted in the creation of dynamic dashboards and charts, which were presented to the NullClass team.

**Challenges and Solutions**

While working independently, I encountered several challenges:

* Initially, I struggled to decide which fields should be used for the desired visualizations in Power BI.
* By thoroughly understanding the dataset and leveraging Power BI's built-in features, such as measures, I found effective solutions to these challenges.

**Outcomes and Impact**

My hard work and dedication resulted in the creation of effective dynamic dashboards and charts. These visualizations provide valuable insights, helping to extract the desired information efficiently.

**Conclusion**

This internship provided me with an excellent opportunity to learn and apply data analytics skills in a real-world setting. I am grateful for the experience and the guidance received from my mentors. I am now more confident in my ability to contribute to data analytics projects and eager to continue developing my skills in the future.