***📄 INTERNSHIP REPORT***

**Name:** *Komal Sonar*  
**Internship Duration:** 21 April 2025 – 21 October 2025  
**Project Title:** Real-Time Google Play Store Data Analytics – Python  
**Internship Provider:** NULLCLASS

***\*\* Introduction***

I am Komal Sonar, and I participated in the internship program offered by NULLCLASS. This internship aimed to provide real-time analytics solutions for Google Play Store data using Python. Over the course of this internship, I worked on 10 data visualization and analysis tasks that enhanced my technical skills and analytical thinking.

***\*\* Background***

I chose this internship to apply my Python skills to real-world data analysis problems, gain practical experience, and work with real-time dashboards. The project aligned with my career goals in data analytics and visualization.

***\*\* Learning Objectives***

* Strengthen Python programming skills
* Learn advanced data visualization techniques (Plotly, Seaborn, Matplotlib)
* Gain experience with data filtering, time-based conditions, and dashboards
* Learn best practices for coding and reporting

***\*\* Activities and Tasks***

I successfully completed all 10 tasks, which included:

* Scatter plots, word clouds, violin plots
* Sentiment and time-based visualizations
* Dual-axis, choropleth, bubble, and bar charts
* Applying logical filters (e.g., by rating, installs, size, sentiment)
* Creating dashboards with time-based rendering

Each visualization was implemented using Python libraries such as Pandas, Matplotlib, Seaborn, and Plotly.

***\*\* Skills and Competencies Gained***

* Data cleaning and preprocessing
* Conditional filtering in Python
* Advanced charting (e.g., violin plots, dual-axis charts, choropleth maps)
* Real-time data rendering and constraints
* GitHub project management

***\*\* Evidence of Work***

* GitHub Repository Link: [INSERT YOUR GITHUB LINK HERE]
* Internship report and source code are uploaded to the repository
* Each task is organized in separate folders for clarity

***\*\* Challenges and Solutions***

* **Time-based chart filtering**: Solved using Python datetime functions
* **Data complexity**: Managed by building reusable functions and breaking down logic
* **Choropleth and interactivity**: Used Plotly’s built-in features for dynamic graphs

***\*\* Outcomes and Impact***

This internship gave me real-world experience with data analytics. I now feel more confident working with large datasets, building visualizations, and deploying analytics solutions.

***\*\* Conclusion***

I am grateful to NULLCLASS for this opportunity. This internship helped me grow both technically and professionally. I look forward to applying these skills in future data-driven roles.