***Project Roles and Contributions***

***Data Wrangling and Visualization***

***Presented By:***

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# **Python Development**

**Contributors:** Rodi Yasser and Yahia Fouda  
Tasks were divided among the team members for efficient collaboration. Key responsibilities included:

* **Pre-processing:** Cleaning and preparing the raw dataset for analysis.
* **Data Transformation:** Structuring and transforming the data for better usability.
* **Data Analysis and EDA:** Conducting exploratory data analysis using Python to uncover meaningful insights.

# **MySQL Workbench**

**Contributors:** Adham Zafer and Ali Ayman  
Primary tasks focused on managing the database operations:

* Importing the dataset into MySQL Workbench.
* Creating tables and organizing the data effectively.
* Manipulating the data to ensure accuracy and relevance.
* Exporting each table as a CSV file for seamless integration with Tableau.

# **Tableau Dashboards**

**Ali Ayman:** Designed the **Overall Performance Metrics Dashboard**, including all associated worksheets, ensuring comprehensive visualization of key performance indicators.

**Adham Zafer:** Developed the **Audience Demographics Dashboard**, detailing user demographics and ensuring clarity in representation through well-structured worksheets.

**Yahia Fouda:** Created the **Engagement Insights Dashboard**, encompassing all related worksheets, to provide in-depth analysis of user engagement.

**Rodi Yasser:** Constructed the **Sentiment Dashboard**, along with its corresponding worksheets, to visualize and interpret sentiment data effectively.

# **Final Presentation and Design**

The team collaboratively consolidated all individual dashboards to ensure a cohesive and professional output. A consistent **blue color palette** was applied across all dashboards to maintain visual harmony and alignment with project branding.