PUBLIC HEALTH AWARENESS PROJECT

PROJECT DEFINITION:

The project focuses on evaluating the effectiveness of public health awareness campaigns by analysing campaign data. The primary objective is to measure the impact of these campaigns in reaching the target audience and increasing awareness, providing insights for future strategies. The project involves defining specific analysis objectives, collecting campaign data, creating visualizations, and integrating code for enhanced data analysis.

DESIGN THINKING

ANALYSIS OBJECTIVES:

1. Audience Reach:

- ❖ Assess the extent of campaign reach within the tragediennes.
- ❖ Measure geographical and demographic coverage.

2. Awareness Levels:

- ❖ Evaluate changes in awareness levels before and after the campaigns.
- ❖ Identify the most successful messages or topics.

3. Campaign Impact:

- ❖ Quantify the overall impact on public health behaviour and knowledge.
- ❖ Analyse correlations between engagement metrics and behavioural changes.

DATA COLLECTION:

1. Engagement Metrics:

- ➢ Gather data on social media interactions, website visits, and online engagement.
- ➢ Track clicks, likes, shares, and comments on campaign-related content.

2. Audience Demographics:

- ➢ Collect demographic data of the audience exposed to the campaigns.
- ➢ Include age, gender, location, and other relevant factors.

3. Awareness Surveys:

- ➢ Conduct surveys to gauge awareness levels among the target audience.
- ➢ Include both pre-campaign and post-campaign surveys for comparison.

4. Campaign Content Analysis:

- Analyse campaign content, including messages and visuals.
- Evaluate alignment with campaign goals.

VISUALIZATION STRATEGY:

1.Dashboard Design:

- ★ Create interactive dashboards to present key metrics.
- ★ Use charts, graphs, and maps for effective communication.

2. Temporal Analysis:

- ★ Develop visualizations showing the temporal evolution of campaign impact.
- ★ Use time-series charts to illustrate changes in awareness levels.

3.Demographic Breakdown:

- ★ Include visualizations breaking down campaign impact by demographic groups.
- ★ Utilize pie charts or bar graphs to highlight variations among segments.

4.Comparison Visuals:

- ★ Design visualizations facilitating easy comparison between different campaigns.
- ★ Use side-by-side charts to showcase relative effectiveness.

CODE INTEGRATION:

1.Data Cleaning:

- Implement code for cleaning and preprocessing raw data.
- Address missing values, outliers, and data anomalies.

2.Transformational Analysis:

- Use code for complex data transformations and feature engineering.
- Implement algorithms for deriving additional insights.

3. Statistical Analysis:

- Apply statistical tests and analyses using code to identify patterns.
- Perform hypothesis testing to validate observed effects.

4.Automation:

- Integrate code for automating repetitive tasks in data processing.
- Ensure scalability for future campaigns and analyses.

CONCLUSION:

In conclusion, this approach aims to provide a comprehensive understanding of public health awareness campaign effectiveness. By combining analysis objectives, data collection, visualization planning, and code integration, the project seeks to deliver actionable insights for guiding future campaigns. The combination of quantitative metrics and qualitative assessments will contribute to a holistic evaluation of campaign success and areas for improvement.

TEAM MEMBERS:

1. RUKSHANA J - 2021115086
2. SWATHI K - 2021115116
3. THIRUMURUGAN K - 2021115117
4. VASUMATHY V - 2021115118
5. KAVIRAM R - 2021115332