Datathon Analysis Report: A different way of understanding Obesity Rates

# Executive Summary

Background: Describe the motivation behind the study, including any relevant literature or previous studies linking TV watching habits to obesity rates.

Objective: Define the specific goals of this analysis. For example, to identify correlations between the amount of TV watched and obesity rates across different demographics.

# Technical Exposition

## Data Overview

Source: Detail the origin of the dataset (e.g., CDC Behavioral Risk Factor Surveillance System).

Description: Summarize the dataset's structure, including the number of entries, the timeframe covered, and key variables (e.g., hours of TV watched per day, obesity metrics, demographic information).

Preprocessing Steps: Outline any cleaning, transformation, or preprocessing steps taken to prepare the data for analysis.

## Methodology

Analytical Approach: Describe the statistical methods, machine learning models, or other analytical techniques employed.

Variables Analyzed: List the main variables analyzed and their roles (e.g., independent vs. dependent variables).

Stratification Strategy: Explain how the data was segmented for analysis, if applicable (e.g., by age, race/ethnicity, income level).

## Results

Descriptive Statistics: Present basic descriptive statistics for key variables.

## Main Findings:

Correlations between TV watching habits and obesity rates.

Differences in trends across demographic groups.

Any other notable patterns or insights derived from the analysis.

Visualizations: Include charts, graphs, or heatmaps that highlight the key findings.

Limitations: Discuss any limitations of the study, including data limitations, analytical methods, or assumptions made.

## Discussion

Interpretation of Results: Offer insights into how TV watching habits might influence obesity rates, supported by the analysis.

Comparison with Prior Research: If applicable, compare your findings with previous studies or literature.

Implications: Discuss the potential public health, societal, or policy implications of your findings.

## Recommendations

For Further Research: Suggest areas where additional research is needed or how future studies could build on your findings.

Practical Recommendations: If applicable, propose practical steps or interventions based on your analysis (e.g., guidelines for TV watching, targeted health campaigns).

## Conclusion

Summarize the key findings and their significance, reinforcing the importance of addressing TV watching habits as part of obesity prevention efforts.

Appendices

Appendix A: Data Dictionary

Appendix B: Additional Tables or Figures

Appendix C: Technical Details on Analytical Methods

References

List all sources cited in the report, including data sources, literature, and any other references.