Case Study Rubric on the Impact of Demographics on Abortion Opinions

Due Date: TBD

Submission Format: Upload PDF and GitHub repository link to Canvas

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General Description

This case study offers a platform to demonstrate your technical and conceptual skills through a project that simulates real-world scenarios similar to those you might encounter in academic or professional settings. The case study is designed to integrate and apply your accumulated data science skills to an independently-driven project, producing a comprehensive deliverable that addresses specific research questions and provides insightful conclusions.

Deliverables

- Written Report: A PDF document including a reference page.
- Code Repository: A GitHub repository titled "CS-[Your First & Last Name]" containing all scripts and datasets used.

Category	Details
Formatting	● Written Report: Submit as a PDF. ● Data & Code: ● Include all scripts and any additional datasets used, hosted on GitHub. ● References: List references on a separate page at the end of the report using IEEE citation style.
Written Report	● Problem Statement: ● Summary: Briefly describe the issue being studied — the

	impact of demographic factors on opinions about abortion. ● Importance: Discuss the relevance of understanding these influences in the contexts of public policy, healthcare, and ethical discussions. ● Methodology: ● Outline your approach with a graphic illustrating your analysis plan, from data collection to processing and analysis. ● Results and Implications: ● Detail the findings of your study, emphasizing the relationship between demographics and abortion opinions. ● Discuss the broader implications of your findings, suggesting how they might inform policy decisions or future research. ● Reflection: ● Reflect on challenges encountered, solutions implemented, and lessons learned. ● Suggest what could be improved in future projects.
Code	● Exploratory Data Analysis: ● Analyze the dataset focusing on variables related to abortion opinions (e.g., pro-choice, pro-life, and attitudes toward legislation).

	● Use visualizations to represent the data distribution and demographic relationships. ● Predictive Modeling: ● Construct decision tree models to predict abortion opinions from demographic data. ● Explain the choice of model parameters and evaluate model performance. ● Documentation: ● Include comprehensive comments to clarify the steps and logic behind your code.
References	● Citation: Include a comprehensive list of all external references used, formatted according to IEEE standards, that were not included in the provided materials.