Rubric for Replicating Results: Exploring the Relationship Between GDP and Life Expectancy in Asia

Instructor: Professor Alonzi
Due Date: 12/9/2024

This rubric outlines the expectations for replicating the results of the case study on GDP per capita and life expectancy. Your task is to reproduce the original analysis, validate findings, and provide insights into the reproducibility of the work. The deliverables include a detailed report, GitHub repository with code and outputs, and a reflection on challenges encountered during replication.

Criteria	Exceeds Expectations (A)	Meets Expectations (B)	Needs Improvement (C)	Unacceptable (F)
Reproducibility of Results	Successfully replicates all results from the original case study with accurate outputs and clear documentation of the process.	Replicates most results accurately but may have minor discrepancies or incomplete documentation.	Replicates some results but with significant errors or missing key components.	Fails to replicate results or does not document the process clearly.
Code Quality and Organization	Code is clean, well-documented, and follows best practices;	Code is functional and mostly well-documented; the repository is	Code is functional but poorly documented or disorganized; the	Code is not functional, undocumented,

	the repository is well-structured and easy to navigate.	organized but could be improved.	repository lacks clarity.	or repository is unusable.
Data Handling and Usage	Demonstrates excellent understanding of data sources, preprocessing steps, and their impact on results.	Demonstrates sufficient understanding of data handling but may overlook some details or assumptions.	Demonstrates limited understanding of data handling or makes significant errors in preprocessing.	Lacks understanding of data handling or fails to use data appropriately.
Analysis and Insights	Provides thorough analysis confirming original trends; identifies any discrepancies with clear explanations.	Provides sufficient analysis confirming most trends; explains discrepancies but lacks depth.	Analysis is superficial or fails to address discrepancies in results adequately.	Provides no meaningful analysis or fails to address discrepancies entirely.

Reflection on Challenges	Thoughtfully reflects on challenges encountered during replication; offers actionable suggestions for improving reproducibility.	Reflects on challenges but lacks depth or actionable suggestions for improvement.	Reflection is superficial or misses key challenges encountered during replication.	Missing reflection or fails to identify challenges encountered during replication.
Clarity and Accessibility	Report is clearly written, and includes visuals (e.g., graphs) that enhance understanding.	Report is mostly clear but may lack engaging visuals or accessibility for the target audience.	Report is unclear, overly technical, or lacks accessibility.	Report is inaccessible, overly complex, or confusing for the target audience.

Notes:
- Submission Format: Submit a link to your GitHub repository via Canvas AND provide a hard copy of your report to [Insert Instructor's Office Location].
- Deliverables: Include a detailed report documenting your process and findings, a fully functional GitHub repository with code and outputs, and a reflection on challenges faced during replication.
- Tips for Success: Pay close attention to documentation! Clearly explain your steps so future students can follow your work easily.
- Grading: Your final grade will be based on how well you meet the criteria outlined above.