

M.Sc. In Software Design with AI (AL_KAIMEF_9_1)					
Data Visualization					
Assignment 2 Rubric Sheet					
Student Name & Number		Assessed By		Prof. Puranjay Savar Mattas	Date
RUBRIC					
Criteria	Excellent (5 Marks)	Good (3-4 Marks)	Fair (1-2 Marks)	Unsatisfactory (0 Marks)	Score
Section 1: Data Selection & Analysis (10 marks)					
Topic Relevance & Indicator Selection (5 Marks)	Three highly relevant and distinct topics are chosen, demonstrating a clear understanding of the assigned country's development. Indicators are meticulously selected and directly relate to the chosen topics.	Three relevant topics are chosen, with a good understanding of the country's development. Most indicators are well-selected and relate to the topics.	Three topics are chosen, but some may lack clear relevance, or indicator selection is adequate but includes some less relevant choices.	Topics are irrelevant/missing, or indicator selection is inappropriate/absent.	
Data Cleaning (5 Marks)	At least three different data quality issues are correctly identified and effectively addressed. Cleaning is thoroughly documented (report and code comments), with clear, logical rationale. Data Types Addressed.	At least three data quality issues are identified and addressed. Cleaning is well-documented (report and code comments), with clear rationale.	At least three data quality issues are identified, but solutions may be incomplete/less effective, or documentation lacks detail/clarity in the rationale.	Data quality issues are not identified/addressed, or no documentation of the cleaning process.	
Section 2: Interactive Dashboard (15 Marks)					
Functionality (5 Marks)	Dashboard is fully functional; all interactive elements (at least one dropdown/slider) work flawlessly. Data updates correctly based on user interaction.	Dashboard is mostly functional, with minor issues in interactive elements or data updates.	Dashboard has significant functionality issues; interactive elements may be broken/unresponsive, or data updates may be incorrect.	Dashboard is largely non-functional/missing; interactive elements are mostly absent/broken.	
Visualizations (5 Marks)	At least three different and appropriate chart types are used, each clearly visualizing one topic. Visualizations are well-designed, informative, visually appealing. Insightful regional comparisons.	Three chart types are used, most appropriate for the data. Visualizations are generally well-designed and informative. Regional comparisons are present.	Three chart types are used, but some may be inappropriate/poorly chosen, or visualizations may be cluttered/confusing/lack clarity. Regional comparisons are superficial/missing.	Visualizations are missing/completely inappropriate, or chart types are inappropriate/poorly implemented. Regional comparisons are absent.	
Layout & Design (5 Marks)	Dashboard has a clear, user-friendly, well-organized layout. All elements are logically positioned. Clear labels and titles for all visualizations and the overall dashboard.	Dashboard has a generally good layout, but some elements may be slightly disorganized or lack clear labeling.	Dashboard layout is cluttered/confusing, or labels/titles may be missing/unclear.	Dashboard is missing/has no discernible layout, or the layout is disorganized and difficult to navigate, with labels/titles largely absent.	
Section 3: Analysis & Explanation (5 Marks)					
Clarity & Completeness (2.5 Marks)	Each visualization is thoroughly explained (report): clear heading, indicator/year listing, purpose, insights, chart type rationale. Explanation is concise and insightful.	Each visualization is explained (report), with most required elements. Explanation is generally clear.	Visualizations are explained, but some elements may be missing/unclear, or the explanation may lack depth/insight.	Explanations are absent/completely inadequate, incomplete, confusing, or missing key elements.	
Data Cleaning Impact (2.5 Marks)	Impact of data cleaning on understanding/analysis is specifically and thoughtfully addressed. Clear connections between cleaning steps and changes in insights.	Impact of data cleaning on understanding/analysis is addressed. Connections between cleaning and insights are made.	Impact of data cleaning is mentioned, but the connection to understanding/analysis is weak/superficial.	Impact of data cleaning is not addressed/misunderstood or is completely absent.	
Section 4: Deliverables & Formatting (4 Marks)					
Report Structure & Formatting (Report limited to 4 pages, excluding cover sheet and references) (3 Marks)	Report follows specified structure (Cover Sheet, Table of Contents, Report Body, Learning Outcomes, References). Formatting (font, justification, page numbering, Vancouver) is perfect.	Report generally follows structure, minor deviations. Formatting is mostly correct, few minor errors.	Report deviates significantly from structure, or formatting has several errors.	Report is missing/completely unformatted, structure is disorganized/unclear, or formatting is largely incorrect.	
Code and Data Files (1 Marks)	All required files (original data, cleaned data, Python code, PDF report) in ZIP, well-organized. Code is clean, well-commented, easy to understand, runs without errors.	All required files in ZIP. Code is generally clean/readable, some comments. May have minor execution issues.	Some required files missing. Code is poorly organized/lacks comments/difficult to understand. May have significant execution issues.	Files are largely missing/incomplete, or code is unreadable/does not run.	
Section 5: Learning Outcomes & Challenges (1 Mark)					
Reflection (0.5 Marks)	Thoughtful, insightful reflection on learning about the country and challenges. Clear understanding of objectives.	Reflection on learning and challenges, but may lack depth/specific examples.	Reflection is superficial/lacks detail, or limited understanding of objectives is demonstrated.	Reflection is absent/minimal/irrelevant.	
Adherence to Restrictions (0.5 Marks)	Visualization fully adheres to all restrictions (no political, racist, sexist messages, or hate speech).	Visualization adheres to all restrictions.	Minor concerns regarding adherence to restrictions	Visualization violates restrictions (forfeiture of marks).	

Scores	
Section 1	0
Section 2	0
Section 3	0
Section 4	0
Section 5	0
Overall Score	0
Percentage	0.00%