MSc Software Design with AI (AL_KSAIM_9)
Data Visualisation
Assignment 2

Marks:
35% of the Module.

Task:
To create a dashboard, using python, to visualise economic data for the assigned country and to submit the code for this dashboard along with a written report presenting your analysis of the economic data, your choices of visualisations, and the layout of your dashboard.

Restrictions:
While third-party python code can be integrated into your code, such code must NOT constitute more than 10% of your submitted code. When such code has been used, you must provide
   • justifications for the usage.
   • proper referencing of the source/authors of this code.
Failure to provide either will result in lower marks as per the Rubric on your Moodle page.

Deadline:
Sunday 27th April 2025.

Deliverables:
A report with the following sections (more may be added at your discretion):
   • A completed and signed assignment cover sheet page. Use the sheet provided on Moodle. (1 page)
   • A table of contents.
   • A table of figures.
   • A table of tables (if necessary).
   • Introduction
     This is where you introduce your assigned country, the economic data you're going to consider, and the source(s) of the data.
   • Data Set
     A detailed examination of the data set focussing on the breadth of the data and what attributes you find interesting (and why). Sources should be mentioned again and URLs provided.
   • Visualisations and Analysis:
     Here you present the data as it is presented on your dashboard. The variety and appropriateness of the visuals will be assessed so think carefully about the choices you make.
     Follow these visuals with your analysis, i.e., what you take from the data and what you're intending the viewer to see. Draw conclusions form the visuals and present your arguments here.
   • Conclusion
     Here you bring together all your issues, arguments, justifications, etc. to justify the approach taken by you in visualising the data set.
   • References
     Here you list all references you've used in the second assignment. This includes links to fora where third party code (if used) is located, journals, web-sites for

economic data, government reports, etc. The citing to follow the Vancouver referencing style.

Python Code for the dashboard itself. You should provide a video of the dashboard in operation.
N.B.
Do not submit .ipynb (Jupyter Notebook) as configuration issues in the past have resulted in re-submissions and delayed marking of assessments. Submit the code as a .py or .txt file instead.

Submission:
The report (in PDF format) and the code (in .py or .txt) to be submitted to the Second Assignment Upload section on your Moodle page for your Data Visualisation module.
If video is being provided, upload that along with the report and code.