Ateneo de Manila University Department of Quantitative Methods and Information Technology

Certificate of Authorship

Instructions

- Accomplish the document completely
- Save the document as a .pdf file with the following name format: <IDNumber>_<RequirementTitle>_COA (e.g. 12345_Assignment1_COA)
- Attach this document to each course requirement submission unless otherwise specified by the Course Instructor

Certification

I hereby certify that the submission described in this document abides by the principles stipulated in the student handbook.

I further certify that I am the author of this submission and that any assistance I received in its preparation is fully acknowledged and disclosed in the documentation.

I have also cited all sources from which I obtained data, ideas, or words that are directly copied or paraphrased in this document. Sources are properly credited according to accepted standards for professional publication.

I am aware that any potential case of plagiarism or cheating (similar code) regarding my submission merits a 0 for the requirement and a disciplinary case filed to the Discipline Committee of the Loyola Schools.

Sources

https://pythonguides.com/put-legend-outside-plot-matplotlib/#:~:text=In%20Matplotlib%2 C%20to%20set%20a,the%20bbox to anchor%20attribute%20to%20it.&text=We%20use%2 Othe%20bbox to anchor%3D(,the%20coordinates%20of%20the%20legend.

https://www.w3schools.com/python/pandas/ref_df_update.asp

https://stackoverflow.com/questions/43401903/python-order-dataframe-alphabetically

Student and Course Information

Course Code & Section	ITMGT 25.03-C
Course Instructor	JOSE RAMON S. ILAGAN
Student's Full Name	AIJI C. UMEMORI
Signature	Aiji Umemori

Ateneo de Manila University Department of Quantitative Methods and Information Technology

Certificate of Authorship

Sources (cont.)

https://re-thought.com/how-to-change-or-update-a-cell-value-in-python-pandas-dataframe/

https://sparkbyexamples.com/pandas/pandas-get-cell-value-from-dataframe/

https://blog.hubspot.com/website/pandas-split-string

https://www.statology.org/pandas-merge-on-index/

https://www.statology.org/pandas-rename-columns/

https://www.iavatpoint.com/how-to-create-a-dataframes-in-python

https://stackoverflow.com/questions/19377969/combine-two-columns-of-text-in-pandas-da taframe

https://theprogrammingexpert.com/remove-parentheses-from-string-python/#:~:text=Usin g%20strip()%20to%20Remove,and%20end%20of%20a%20string.

https://www.atmosera.com/blog/using-pandas-to-analyze-sales-data/

https://predictivehacks.com/pandas-how-to-assign-values-based-on-multiple-conditions-of-different-columns/

https://stackoverflow.com/questions/43401903/python-order-dataframe-alphabetically

https://stackoverflow.com/guestions/28337117/how-to-pivot-a-dataframe-in-pandas

https://stackoverflow.com/questions/41815079/pandas-merge-join-two-data-frames-on-multiple-columns

https://predictivehacks.com/?all-tips=save-a-pandas-dataframe-as-an-image

https://www.geeksforgeeks.org/difference-between-and-and-in-python/

Student and Course Information

Course Code & Section	ITMGT 25.03-C
Course Instructor	JOSE RAMON S. ILAGAN
Student's Full Name	AIJI C. UMEMORI
Signature	Aiji Umemori

Ateneo de Manila University Department of Quantitative Methods and Information Technology

Certificate of Authorship

Sources (cont.)

https://www.askpython.com/python/examples/in-and-not-in-operators-in-python#:~:text=Python%20%E2%80%9Cnot%20in%E2%80%9D%20operator,that%20of%20the%20in%20operator.

https://stackoverflow.com/questions/5741372/syntax-in-python-t

https://www.codegrepper.com/code-examples/python/combine+two+line+graphs+matplotlib

https://stackoverflow.com/questions/9622163/save-plot-to-image-file-instead-of-displaying-it-using-matplotlib

https://stackoverflow.com/questions/31037298/pandas-get-column-average-mean

https://www.geeksforgeeks.org/different-ways-to-create-pandas-dataframe/

https://www.geeksforgeeks.org/calculate-the-average-variance-and-standard-deviation-in-python-using-numpy/

https://www.geeksforgeeks.org/how-to-create-pie-chart-from-pandas-dataframe/

https://www.codegrepper.com/code-examples/python/pandas+plot+disable+legend

https://pynative.com/pandas-set-index/

https://discuss.dizzycoding.com/why-is-my-xlabel-cut-off-in-my-matplotlib-plot/

https://stackoverflow.com/questions/26700598/matplotlib-showing-x-tick-labels-overlapping

Student and Course Information

Course Code & Section	ITMGT 25.03-C
Course Instructor	JOSE RAMON S. ILAGAN
Student's Full Name	AIJI C. UMEMORI
Signature	Aiji Umemori