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

cs95. (2018, December 6). *Pandas merging 101*. Stack Overflow. Retrieved July 20, 2022, from https://stackoverflow.com/questions/53645882/pandas-merging-101

ericmjl. (2013, June 21). *How do I convert A pandas series or index to a Numpy array?* Stack Overflow. Retrieved July 19, 2022, from https://stackoverflow.com/questions/17241004/how-do-i-convert-a-pandas-series-or-index-to-a-numpy-array?noredirect=1&lq=1

Student and Course Information

Course Code & Section	ITMGT 25.03 - B
Course Instructor	Mr. Joe Ilagan
Student's Full Name	Tobi Jasper Q. Wang
Signature	STY

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- K, H. (2016, July 1). *How to remove the extra row (or column) after transpose() in Pandas*. Stack Overflow. Retrieved July 19, 2022, from https://stackoverflow.com/questions/38148877/how-to-remove-the-extra-row-or-column-after-transpose-in-pandas
- Roman. (2013, May 10). *How to iterate over rows in a DataFrame in pandas*. Stack Overflow. Retrieved July 19, 2022, from https://stackoverflow.com/questions/16476924/how-to-iterate-over-rows-in-a-datafr ame-in-pandas?rq=1
- Socratica. (2017). Lambda Expressions & Anonymous Functions | | Python Tutorial | | Learn Python Programming. YouTube. Retrieved July 18, 2022, from https://www.youtube.com/watch?v=25ovCm9jKfA.
- user1504276. (2012, July 5). *Removing prefix from column names in pandas*. Stack Overflow. Retrieved July 19, 2022, from https://stackoverflow.com/questions/11346283/removing-prefix-from-column-name s-in-pandas?rq=1

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Sources (cont.)	So	urces	(con	t.)
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