Ateneo de Manila University
Department of Quantitative Methods and Information Technology

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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

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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.

Student and Course Information

Course Code & Section	ITMGT 25.03 A		
Course Instructor	Joseph Benjamin R. Ilagan		
Students' Full Names and Signatures	Garing, Kiana Alecsandra A.	202273	
	Lumawig, Javier Miguel R.	203093	
	Vallester, Sinead Dylan P.	205306	
	Villafuerte, Lance Wesley G.	205380	
	Yu, Angela Terese N.	205524	

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Sources

- https://github.com/kevinzg/facebook-scraper
- https://github-dotcom.gateway.web.tr/kevinzg/facebook-scraper/pull/188
- https://www.danielherediamejias.com/facebook-scraping-and-sentiment-analysis-with-python/
- https://stackoverflow.com/questions/8199041/writing-a-python-list-into-a-single-csv-column
- https://stackoverflow.com/questions/15063936/csv-error-field-larger-than-field-limit-131072
- https://intellipaat.com/community/32903/pandas-convert-strings-to-time-without-date
- https://pandas.pydata.org/docs/reference/api/pandas.Series.to_frame.html
- https://stackoverflow.com/questions/59390812/custom-xticks-labels-on-a-bar-chart-matplotlib
- https://www.kite.com/python/answers/how-to-extract-integers-from-a-string-in-python
- https://www.geeksforgeeks.org/facebook-sentiment-analysis-using-python/
- https://stackoverflow.com/questions/22649693/drop-rows-with-all-zeros-in-pandas-data-frame
- https://stackoverflow.com/questions/16910114/delete-a-group-after-pandas-groupby
- https://support.minitab.com/en-us/minitab/18/help-and-how-to/graphs/how-to/matrix-plot/interpret-the-results/key-results/
- https://pypi.org/project/facebook-scraper/
- https://pypi.org/project/googletrans/
- https://jakevdp.github.io/blog/2017/12/05/installing-python-packages-from-jupyter/
- https://blog.hootsuite.com/social-media-sentiment-analysis-tools/
- https://dl.acm.org/doi/abs/10.1145/3361785.3361814

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Sources (cont.)

- https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.plot.kde.html
- https://web.archive.org/web/20150402183703/http://apstatsreview.tumblr.com/post/50058615236/density-curves-and-the-normal-distributions?action=purge
- https://www.youtube.com/watch?v=57qAxRV577c
- https://www.youtube.com/watch?v=ujId4ipkBio

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