

Back to Data Analyst Nanodegree Wrangle and Analyze Data

REVIEW CODE REVIEW HISTORY

Meets Specifications

Avid Udacity Student,

This is a such great piece of work and tells a ton about the type of person you are - organized, hardworking, and quality oriented. Going thoroughly through the work, I could see a lot of time and effort invested in the project, and I think this is commendable. All the requirements have been addressed correctly. The data cleaning and analysis were well done. The project is quite impressive! 👋 Please keep up this good work as it will make you an outstanding Data Analyst. Keep learning! I wish you all the best.

Code Functionality and Readability

All project code is contained in a Jupyter Notebook named wrangle_act.ipynb and runs without errors.

Awesome, all code is functional and runs free from significant error.

Learning Notes

Notebook Shortcuts.

The Jupyter Notebook has an intuitive, easy-to-follow logical structure. The code uses comments

I am a fan of using shortcuts with Jupyter Notebook. Check out this medium post on Jupyter

effectively and is interspersed with Jupyter Notebook Markdown cells. The steps of the data wrangling process (i.e. gather, assess, and clean) are clearly identified with comments or Markdown cells, as well. Great job on making the work very clear and easy to follow. Markdown cells are used to clearly

indicate different sections of the notebook. Apart from markdown cells, the project also makes use of inline python comments to make the work clearer. Nice!

Gathering Data

- Data is successfully gathered:
 - From at least the three (3) different sources on the Project Details page. • In at least the three (3) different file formats on the Project Details page.
 - Each piece of data is imported into a separate pandas DataFrame at first.

three different file formats on the project details page. Each piece of data is imported into a separate

pandas dataframe at first. Data was gathered from the following sources:

Awesome, you have successfully gathered data from at least three different sources on in at least

• Twitter-archive CSV file.

- Image prediction TSV file.
- tweet_json.txt file containing retweet counts and likes.

Two types of assessment are used:

Assessing Data

• Visual assessment: each piece of gathered data is displayed in the Jupyter Notebook for

well documented.

each level. Excellent work!

Copying the df_img.

df_img_cln = df_img.copy()

- visual assessment purposes. Once displayed, data can additionally be assessed in an external application (e.g. Excel, text editor). • Programmatic assessment: pandas' functions and/or methods are used to assess the data.
- Well done! Both visual and programmatic assessments are used in the notebook and the results are

At least eight (8) data quality issues and two (2) tidiness issues are detected, and include the

issues to clean to satisfy the Project Motivation. Each issue is documented in one to a few

sentences each. Good work identifying at least 8 quality issues and 2 tidiness issues in the dataset!

The define, code, and test steps of the cleaning process are clearly documented.

Cleaning Data

The different steps of the cleaning process are clearly documented. We have the define, code and test steps which are clearly stated with some explanations of what process you intend to do at

Copies of the original pieces of data are made prior to cleaning.

pandas, and include the cleaning tasks required to satisfy the Project Motivation.

A tidy master dataset (or datasets, if appropriate) with all pieces of gathered data is created. Good work using pandas. DataFrame.copy function to make a copy of the dataset before cleaning.

All issues identified in the assess phase are successfully cleaned (if possible) using Python and

Copying the df_ach. df_ach_cln = df_ach.copy() # Copying the df_twt_raw. df_twt_cln = df_twt_raw.copy() In addition, all issues identified in the assess phase are successfully cleaned.

Students will save their gathered, assessed, and cleaned master dataset(s) to a CSV file or a

SQLite database. The cleaned master dataset is saved to a csv file. Good work!

libraries or in Tableau.

are interesting and detailed. Keep it up!

-8')

Storing and Acting on Wrangled Data

Saving the `twt_ach_mstr` as twitter_archive_master.csv. twt_ach_mstr.to_csv('01-Dataset/twitter_archive_master.csv', index=False, encoding = 'utf

The master dataset is analyzed using pandas or SQL in the Jupyter Notebook and at least three (3) separate insights are produced.

At least one (1) labeled visualization is produced in the Jupyter Notebook using Python's plotting

Students must make it clear in their wrangling work that they assessed and cleaned (if necessary) the data upon which the analyses and visualizations are based.

Learning Notes • Check out the python visualization documentation for various ways of visualizing data.

• There are several other ways to visualize data including **Box plots**, **Line graphs**, **Pie charts**.

Check out this documentation on Visualization with Seaborn.

Great job analyzing the cleaned data! The notebook contains many separate insights which are well

described in the report and in addition, we several visualizations have been produced. The insights

Report

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The student's wrangling efforts are briefly described. This document (wrangle_report.pdf or

wrangle_report.html) is concise and approximately 300-600 words in length. The write-up (wrangle_report.pdf) is very detailed and within the limit required. Awesome job!

The three (3) or more insights the student found are communicated. At least one (1) visualization

Many insights have been reported in the act_report.pdf and they have been analysed in details. All information is well communicated and the write-up is more than 250 words in length. Impressive

This document (act_report.pdf or act_report.html) is at least 250 words in length.

work picturing this out as an external report. People will surely get engaged and have fun while

Project Files

is included.

The following files (with identical filenames) are included: **/**

act_report.pdf or act_report.html

wrangle_act.ipynb

reading the report. It's quite interesting!

wrangle_report.pdf or wrangle_report.html

All dataset files are included, including the stored master dataset(s), with filenames and extensions as specified on the Project Submission page.

code, the wrangle_report.pdf which contains a brief discussion of the wrangling efforts made in the project with the use of 3 steps which are Gathering Data, Assessing Data and Cleaning Data. Finally, we also have the act_report.pdf which is mainly a discussion on the insights discovered in the project. Brilliant!

All required files are present. The submission contains the wrangle_act.ipynb with all the necessary

J DOWNLOAD PROJECT

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