

Return to "Data Analyst Nanodegree" in the classroom

DISCUSS ON STUDENT HUB

Wrangle and Analyze Data

| REVIEW | |
|---------|--|
| HISTORY | |

Meets Specifications

Hi there,

Congratulations on completing the project.

The project shows the time and effort invested in the learning. The issues assessed and cleaned are worked upon well.

Nice work and keep up the dedication.

All the best.

Code Functionality and Readability

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

All the code is present in the wrangle_act.ipynb notebook and run without errors. Good work on checking that every cell works correctly.

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

It's great to see that you have organized the notebook in the 4 distinct sections of GATHER / ASSESS / CLEAN $\,$

and ANALTZE. The notebook is interspersed with code and markdown text. This neips anyone in following along the work and can also understand the process flow that you have taken.

Nice job.

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.

Data is successfully gathered from all the 3 sources and is saved to file locally.

Assessing Data

Two types of assessment are used:

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

Both visual and programmatic assessments are done in the notebook.

Nice job on using the functions like info(), describe(), value_counts(), sum() and duplicated() to explore more about the data.

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.

Issues have been identified and classified into quality / tidiness issues. Awesome.

All the issues have been properly classified.

Cleaning Data

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

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identifying each issue and how it's cleaned and tested.

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

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

Copies of the dataset are made prior to cleaning. That's an important step as we may need to refer to original dataset later on.

Retweets have been removed.

Names have been properly cleaned.

Almost all the issues are properly. Awesome.

Suggestions

For the issue of converting to only one dog stage column:

The code in the project only extracts one dog stage at a time. It can be noticed in the data that some tweet texts have multiple dog stages in a single tweet. These can be found with this code



AS you can see some rows have multiple dog stages. To clean this step you need to combine all the stages into a single column. These multiple stages can be represented as doggo, pupper in the new column with stages delimited by **comma** or using a single value like multiple.

Merge Dog stages

Here is an approach to solve this.

- 1. Set the None values to np.nan in all the 4 dog stage columns.
- 2. Concatenate all 4 columns to 1 column dog_stage
- 3. Now the multiple dog stages rows will have values combined. So replace them with code

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4. Remove the original 4 columns of dog stages. Hope this helps .

Storing and Acting on Wrangled Data

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

The gathered/cleaned data is saved to a CSV file.

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 libraries or in Tableau.

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.

The master dataset is analyzed using the pandas and insights and visualizations are given. Good job.

Report

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.

Good work on creating the report for the wrangling efforts. It's clear and concise and reflects the wrangling process taken for the data set.

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

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

The Analysis report is present and the insights, visualizations are communicated. Multiple visualizations are present.

Suggestion:

Try to consider this report as a blog post. You can add images of dogs, tweets, ratings to make it a fun read.

Anything to get the reader engaged.

Project Files

The following files (with identical filenames) are included:

- wrangle_act.ipynb
- wrangle_report.pdf or wrangle_report.html
- act_report.pdf or act_report.html

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



RETURN TO PATH