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Explore US Bikeshare Data

REVIEW

CODE REVIEW

HISTORY

Meets Specifications

Hi,

This is really a great project! The project demonstrates your understanding of working with python to provide relevant statistics about the dataset. You implemented a code that reads, manipulates, and analyzes data

I strongly encourage you to upload the project into GitHub with an appropriate readme file that will explain the aspect of the analysis as a showcase.

Most of the required work for this project was already covered Please see my comment inside.
Best

Code Quality

All code cells can be run without error.

Tips: Implement safeguards against invalid user inputs that can potentially break the codes. Please refer to the "Solicit and handle raw user input" rubric item for further details.

The code runs as expected with no errors. It is awesome that you implement safeguards against invalid user inputs that can potentially break the codes.

Appropriate data types (e.g. strings, floats) and data structures (e.g. lists, dictionaries) are chosen to carry out the required analysis tasks.

The analysis makes use of appropriate data types and data structures. It is awesome that you make use of the pandas library here. In the next courses you will learn how to use pandas Dataframe that provides fast, flexible, and expressive data structures designed to make working with “relational” or “labeled” data both easy and intuitive. <https://pandas.pydata.org/pandas-docs/stable/index.html>

Here are links for some functions that are useful when analyzing data

- Group-by: <http://pandas.pydata.org/pandas-docs/stable/groupby.html>
- Value-Counts: https://chrisalbon.com/python/data_wrangling/pandas_dataframe_count_values/

Loops and conditional statements are used to process the data correctly.

Excellent use of loop and conditions, just keep in mind that in any place that you can avoid loops the code will be much more efficient. Always prefer to use pandas operators instead of loops. This is a great article about that topic. <https://towardsdatascience.com/you-dont-always-have-to-loop-through-rows-in-pandas-22a970b347ac>

Packages are used to carry out advanced tasks.

It is excellent that you are making use of functions that make the code more efficient but also easier to follow and understand.

This is a great introduction video, <https://www.youtube.com/watch?v=NSbOtYzIQI0>

Functions are used to reduce repetitive code.

Docstrings, comments, and variable names enable the readability of the code.

Tips: Please refer to the Python’s documentation [PEP 257 -- Docstring Conventions](#). Example of docstring conventions:

```
def function(a, b):  
    """Do X and return a list."""
```

The code is well-formatted and appropriately commented. That makes it easy to follow the analysis steps and identify a specific functional operation. If you like you can examine the python style document.

Script and Questions

Raw input is solicited and handled correctly to guide the interactive question-answering experience; no errors are thrown when unexpected input is entered.

User inputs should be made case insensitive, which means the input should accept the string of "Chicago" and its case variants, such as "chicago", "CHICAGO", or "cHicAgo".

You should also implement error handlings so your program does not throw any errors due to invalid inputs. For example, if the user enters "Los Angeles" for the city, the error handling should reject the user input and avoid breaking the codes.

The code provides an interactive experience for the users. The code also provides a readable output that is easy to follow and understand

Descriptive statistics are correctly computed and used to answer the questions posed about the data.

Raw data is displayed upon request by the user in the following manner:

- Your script should prompt the user if they want to see 5 lines of raw data,
- Display that data if the answer is 'yes',
- Continue iterating these prompts and displaying the next 5 lines of raw data at each iteration,
- Stop the program when the user says 'no' or there is no more raw data to display.

Tips: you can implement the `while` loop and track the row index in order to display the continuous raw data.

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