Write a Data Science Blog Post

REVIEW | HISTORY

Meets Specifications

Hi Abhishek
Congratulations on making it through this project.👏 Based on the skills demonstrated in this work, I encourage you to exploit your ability to keep learning new things, you will be amazed at how great a problem solver you are. The Udacity team wishes you success all the way. All efforts are appreciated, please keep the learning flame burning. Have a nice wonderful day!🏆

#StaySafe!🙏

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Code Functionality and Readability

✓ **All the project code is contained in a Jupyter notebook, which demonstrates successful execution and output of the code.**

✓ **Code has easy-to-follow logical structure. The code uses comments effectively and/or Notebook Markdown cells correctly. The steps of the data science process (gather, assess, clean, analyze, model, visualize) are clearly identified with comments or Markdown cells, as well. The naming for variables and functions should be according to PEP8 style guide.**

✓ **Code is well documented and uses functions and classes as necessary. All functions include document strings. DRY principles are implemented.**

Good work providing functions and including docstrings in them to further explain the purpose of the function. The DRY principle is also observed in the submission. Nicely done!

```
70]: #First make copy of dataframe and then Filter a dataframe by country
def filter_country(df, column_filter, country, columns):
    '''
    Filter a dataframe by country(i.e. why i use dropna to drop all other country excpet India)
    Returns filtred dataframe
    '''

    df_copy = df

    for column in columns:
        df_copy = df_copy[df_copy[column_filter] == country].dropna(subset=[column])

    return df_copy

# Filtering the dataframe
india_2017 = filter_country(df_2017, 'Country', 'India', ['HaveWorkedLanguage', 'WantWorkLanguage'])
india_2018 = filter_country(df_2018, 'Country', 'India', ['LanguageWorkedWith', 'LanguageDesireNextYear'])
```

```
71]: #Spliting the columns
def split_column(df, column):
```

Pro Tips

- Python Docstrings
- PEP 257 -- Docstring Conventions
- Why functions are useful, and how to use them effectively
- Why should we comment code?

Data

✓ **Project follows the CRISP-DM process outlined for questions through communication. This can be done in the README or the notebook. If a question does not require machine learning, descriptive or inferential statistics should be used to create a compelling answer to a particular question.**

✓ **Categorical variables are handled appropriately for machine learning models (if models are created). Missing values are also handled appropriately for both descriptive and ML techniques. Document why a particular approach was used, and why it was appropriate for a particular situation.**

All good here!

Analysis, Modeling, Visualization

✓ **There are between 3-5 questions asked, related to the business or real-world context of the data. Each question is answered with an appropriate visualization, table, or statistic.**

Github Repository

✓ **Student must have a Github repository of their project. The repository must have a README.md file that communicates the libraries used, the motivation for the project, the files in the repository with a small description of each, a summary of the results of the analysis, and necessary acknowledgements. Students should not use another student's code to complete the project, but they may use other references on the web including StackOverflow and Kaggle to complete the project.**

Blog Post

✓ **Student must have a blog post on a platform of their own choice (can be on their website, a Medium post or Github blog post). Student must communicate their results clearly. The post should not dive into technical details or difficulties of the analysis - this should be saved for Github. The post should be understandable for non-technical people from many fields.**

✓ **Student must have a title and image to draw readers to their post.**

✓ **There are no long, ongoing blocks of text without line breaks or images for separation anywhere in the post.**

✓ **Each question is answered with a clear visual, table, or statistic that provides how the data supports or disagrees with some hypothesis that could be formed by each question of interest.**

RETURN TO PATH