Principles of Data Science Assignment 1 16325959

1. Data Acquisition:

- -The first stage of most data-intensive workflows involves collecting raw data
- -This data must be entered into a spreadsheet to be saved as a CSV file.
- -The general convention is to put all project files in one directory, with one level of subdirectories for different file types such as data, source code, analysis results.

```
|-- strength_project
| |-- raw_data
| | |-- frailty_data.csv
| | |-- README.txt
| |-- data_clean
| |-- results
| |-- src
```

2. <u>Data Processing:</u>

- -Once raw data is collected and placed in a project repository, it requires some processing or cleansing before it can be used in analysis.
- -This step may include removing invalid data, refining the original data and removing outliers
- -For example, after examining this particular dataset, we can improve the frail entry type for more consistent data representation

```
|-- strength_project
| |-raw_data
| | |-- frailty_data.csv
| | |-- README.txt
| |-- data_clean
| | |-- clean_frailty_data.csv
| |-- results
| |-- src
| | |-- clean_data.py
```

3. Data Analysis:

-Analyze and visualize the data for the frailty and grip strength in accordance to the height, weight and age.

