**Work Cited**

\_ Code:

.duplicated(subset=

Source and Date:

* 2008-2014, the pandas development team, July 12th, 2020.

<https://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.DataFrame.duplicated.html>

\_ Code:

.set\_

Source and Date:

* stackoverflow, July 13th, 2020.

<https://stackoverflow.com/questions/40313727/bar-graph-from-dataframe-groupby>

\_ Code:

reset\_index()

Source and Date:

* stack overflow, July 13th, 2020.

<https://stackoverflow.com/questions/20461165/how-to-convert-index-of-a-pandas-dataframe-into-a-column>

\_ Code:

list.zip(

Source and Date:

* GeeksForGeeks, July 13th, 2020.

<https://www.geeksforgeeks.org/create-pandas-dataframe-from-lists-using-zip/#:~:text=One%20of%20the%20way%20to,single%20item%20at%20a%20time.>

\_ Code:

width=0.5

Source and Date:

* 2012-2018 The Matplotlib development team, July 13th, 2020.

<https://matplotlib.org/3.1.0/api/_as_gen/matplotlib.pyplot.bar.html>

\_ Code:

data\_plot.legend()

Source and Date:

* Python Data Science HandBook, July 13th, 2020.

<https://jakevdp.github.io/PythonDataScienceHandbook/04.06-customizing-legends.html>

\_ Code:

legend=True

Source and Date:

* 2008-2014, the pandas development team., July 13th, 2020.

<https://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.DataFrame.plot.html>

\_ Code:

subplots=True

* stack overflow, July 13th, 2020.

<https://stackoverflow.com/questions/33959124/plot-pandas-dataframe-with-subplots-subplots-true-place-legend-and-use-tight>

\_ Code:

radius=5

* 2012 - 2018 The Matplotlib development team., July 13th, 2020.

<https://matplotlib.org/api/_as_gen/matplotlib.pyplot.pie.html>

\_ Code:

pad=40

* 2012 - 2018 The Matplotlib development team., July 13th, 2020.

<https://matplotlib.org/3.1.1/api/_as_gen/matplotlib.pyplot.title.html>

\_ Code:

labelpad=1

* 2012 - 2018 The Matplotlib development team., July 13th, 2020.

<https://matplotlib.org/3.1.1/api/_as_gen/matplotlib.pyplot.ylabel.html>

\_ Code:

plot();

* 2008-2014, the pandas development team., July 13th, 2020.

<https://pandas.pydata.org/pandas-docs/stable/user_guide/visualization.html>