**Work Cited**

\_ Code:

with plt.style.context('ggplot'):

Source and Date:

* Python Data Science Handbook, August 15th, 2020.

<https://jakevdp.github.io/PythonDataScienceHandbook/04.11-settings-and-stylesheets.html>

\_ Code:

**xerr=**

**ecolor=**

Source and Date:

[pandas 0.23.4 documentation](https://pandas.pydata.org/pandas-docs/version/0.23.4/index.html) » [API Reference](https://pandas.pydata.org/pandas-docs/version/0.23.4/api.html) » [pandas.DataFrame](https://pandas.pydata.org/pandas-docs/version/0.23.4/generated/pandas.DataFrame.html) », August 15th, 2020.

<https://pandas.pydata.org/pandas-docs/version/0.23.4/generated/pandas.DataFrame.plot.html>

\_ Code:

**Linewidth=**

Source and Date:

Matplotlib (version 3.3.1), August 15th, 2020.

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

\_ Code:

**Counter().keys()**

Source and Date:

stackoverflow, August 15th, 2020.

<https://stackoverflow.com/questions/12282232/how-do-i-count-unique-values-inside-a-list>

\_ Code:

**[ for in if >= ]**

Source and Date:

stackoverflow, August 17th, 2020.

<https://stackoverflow.com/questions/4587915/return-list-of-items-in-list-greater-than-some-value>

\_ Code:

**from sqlalchemy import extract**

**extract('month', )**

Source and Date:

stackoverflow, August 17th, 2020.

<https://stackoverflow.com/questions/11616260/how-to-get-all-objects-with-a-date-that-fall-in-a-specific-month-sqlalchemy/31641488>

\_ Code:

**.extend()**

Source and Date:

Thispointer.com, August 17th, 2020.

<https://thispointer.com/python-how-to-merge-two-or-more-lists/>

\_ Code:

**.str.contains(" ")**

Source and Date:

stackoverflow, August 17th, 2020.

<https://stackoverflow.com/questions/11350770/select-by-partial-string-from-a-pandas-dataframe>

\_ Code:

**.map(lambda x: str(x)[:])**

Source and Date:

stackoverflow, August 17th, 2020.

<https://stackoverflow.com/questions/13682044/remove-unwanted-parts-from-strings-in-a-column>

\_ Code:

**+= []**

Source and Date:

GeeksforGeeks, August 17th, 2020.

<https://www.geeksforgeeks.org/python-append-string-to-list/>

\_ Code:

**plt.tick\_params(axis=u'both', which=u'both',length=0)**

Source and Date:

stackoverflow, August 17th, 2020.

<https://stackoverflow.com/questions/29988241/python-hide-ticks-but-show-tick-labels>

\_ Code:

**np.unique()**

Source and Date:

GeeksforGeeks, August 17th, 2020.

<https://www.geeksforgeeks.org/python-get-unique-values-list/#:~:text=Using%20Python%E2%80%99s%20import%20numpy%2C%20the%20unique%20elements%20in,returns%20only%20the%20unique%20values%20in%20the%20list.>

\_ Code:

**.drop(columns=)**

Source and Date:

pandas, August 17th, 2020.

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

\_ Code:

**ha=**

Source and Date:

programcreek, August 17th, 2020.

<https://www.programcreek.com/python/example/102357/matplotlib.pyplot.xticks>

\_ Code:

**fontname="Arial Rounded MT Bold"**

Source and Date:

Matplotlib version 3.1.2, August 17th, 2020.

<https://matplotlib.org/3.1.1/tutorials/text/text_props.html#:~:text=%20%20%20rcParam%20%20%20usage%20,%27normal%27%2C%20%27condensed%20...%20%202%20more%20rows%20>

\_ Code:

**leg = plt.legend()**

**for line in leg.get\_lines():**

**line.set\_linewidth()**

Source and Date:

stackoverflow, August 17th, 2020.

<https://stackoverflow.com/questions/9706845/increase-the-linewidth-of-the-legend-lines-in-matplotlib>

\_ Code:

**plt.fill\_between()**

Source and Date:

Matplotlib version 3.1.2, August 17th, 2020.

<https://matplotlib.org/3.2.1/gallery/lines_bars_and_markers/fill_between_demo.html>

\_ Code:

**ax = plt.subplot(111, frame\_on=False)**

**ax.xaxis.set\_visible(False)**

**ax.yaxis.set\_visible(False)**

**table(ax, ,loc=)**

Source and Date:

stackoverflow, August 17th, 2020.

<https://stackoverflow.com/questions/35634238/how-to-save-a-pandas-dataframe-table-as-a-png>

IMPORTANT:

I get all the colors that I use in the matplotlib graphs from this google link:

<https://www.google.com/search?q=matplotlib+colors&sxsrf=ALeKk03jp7ZxMqCnQMgUdrnhkOhvUWtzHw:1597817225297&tbm=isch&source=iu&ictx=1&fir=Ku9WrfPizUlD6M%252C7O1h4gmVnlAbyM%252C_&vet=1&usg=AI4_-kRSrhmPbdKWrYWrbUJSlB9kIvM7Ow&sa=X&ved=2ahUKEwjny4SBzabrAhU7SDABHdxLCuQQ_h0wAHoECAoQBA&biw=1243&bih=742#imgrc=Ku9WrfPizUlD6M>

+ **I chose SOMETIMES to use the plt.style.context() rather than style.use() because it was more practical.**