The article I found the most interesting was the Medium article titled “Interactive Dashboards in Python” by Mark Topacio. I found this article the most interesting because many of the visualization options it discusses utilize React.js behind the scenes for displaying the charts. I have been using React for approximately a year now. On top of that, the company I currently work for allows users to create dashboards on our platform with the purpose of displaying data. One of the dashboard block options uses Vega Charts for creating visualizations and this is also something Streamlit, one of the Python libraries mentioned in the article, uses for its visualization.

Streamlit is very easy to use since it leverages Pandas’ Dataframes for handling the data to render. I spent some time initially just using the “diamonds.csv ” file from the previous assignment to render a couple of different graphics. I first rendered a table with all the values from the Dataframe and had no issues. I then went on to trying to render a line chart using the carat and price values. I had to look through the API documentation to figure out how to set which columns I wanted to use for X and Y axes. Once I figured that out the line chart successfully rendered. There were some performance problems due to the amount of data points being rendered so I decided to just use a slice of the first 2000 entries. Now I started working on recreating the example from the article and realized the regular “line\_chart” method from Streamlit was not going to work due to the customization being limited. That is when I found the “altair\_chart” method. The Altair chart allows for accessing more of the Vega Lite options allowing me to replicate the look of the example. I was able to find some of what I need right in the Streamlit documentation, but I also had to do some searching on Stack Overflow to find examples for the options I needed to change. When adding the line, I had to pass an option for it to render circles on the data points and I also had to set the sorting for the X axis to None since it was sorting the days by their character codes. Lastly, I had to hide the axis labels by passing the title parameter to the X and Y configurations.

**References**

Topacio, M. (2023, August 2). *Interactive Dashboards in Python 2023*. Medium. https://medium.com/@marktopacio/interactive-dashboards-in-python-2023-7d6cd4bda40c