So the web pages that I used for this assignment are in two parts, and they have to do with Data Visualization with Streamlit, Dash, and Panel (<https://sunscrapers.com/blog/data-viz-streamlit-dash-panel-part-1/>) (<https://sunscrapers.com/blog/streamlit-dash-panel-features-part-2/>) the first part starts by explaining what Streamlit, Dash, and Panel are, which are Data Visualization tools. I thought it was interesting that this was in two parts, part one talking about what Streamlit, Dash, and Panel, and part two being the features that it each of the Data Visualization tools have. Streamlit seems to be very compatible with python libraries like NumPy, and pandas, Dash uses Flask, Plotly.js, and React.js, and Panel is built on top of Bokeh.

I also learned about the differences between each of these. According to the articles, Streamlit is simple, while Dash is more customizable, and Panel is very flexible when it comes to library integration. And the article also points out that Dash and Panel are more customizable in comparison to Streamlit. It also gets into how each of the three Data Visualization tools handle deployment. Streamlit and Dash can use Docker for deployment, but they also have their own deployment tool, Streamlit Sharing and Dash Enterprise respectively. Dash, Panel, and Streamlit can all use the cloud service to be deployed as well.

It also talks about enterprise functions like single sign-on which both Dash and Streamlit have, Self-hosting which again both Dash and Streamlit have, and Snowflake integration which Streamlit is noted in these articles to have gained attention for it. Streamlit seems to be a beginners Data Visualization tool, with high ease of use, and limited customization. Panel and Dash seem to be a bit harder to use but more customizable, although Panel seems to have a more diverse visualization array. I’m glad I learned about these three tools.