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**Title**: Predicting Rain with Interactive Visualizations

**High-level description:**

I will be looking at the data that I cleaned and processed in Practicum I. This can be accessed here: <https://github.com/kkbeckk/Practicum-Project>

After graduation, I will be moving into a data visualization designer role at my company and I want to hone in on those skills for this practicum. I will be using data on rainfall and weather patterns in Australia and will be using python to create various visualizations.

**What type of data science task is it?**

The data task that I will be mainly performing here is interactive visualizations and EDA.

**Data:**

The data used for this project contains 10 years of weather observations and variables for various cities across Australia. This data was collected from Kaggle. I have already performed all the data preparation and preprocessing of this data.

**How will you analyze the data?**

At this time I’m thinking I will create most of the interactive visualizations around the target variable for my predictive analytics project in Practicum I (RainTomrorow). I will plan on creating many interactive visualizations that will give the user/viewer different experiences and show various data. I plan on learning and getting a rounded understanding of the Bokeh library in python. Two other packages that I will not be trying to implement or master for this project are Plotly and ggplot, as I’d like to learn more about these, and once I know the basics of Bokeh, Plotly and ggplot might just fall into place with my learning (this will be a play-by-ear part). I will only plan on having Bokeh interactive visualizations in my final project.

**Difficulties/Problems:**

I don’t see any difficulties or problems at this time. Since I already have the data and it’s cleaned, I should be good to jump right in and start learning and implementing.

**Timeline:**

Once I start getting into the Bokeh package and learn everything that I can do, I will iterate on this timeline and fill in more details for weeks 4-6.

Week 2 – Learning Bokeh

Week 3 – Start implementing the library into my Jypter notebook and loading the data

Week 4 – Visualizations

Week 5 – Visualizations

Week 6 – Visualizations

Week 7 – Finalize the project and visualizations

Week 8 – Presentation

**GitHub Repository:**

<https://github.com/kkbeckk/Interactive_Visualizations_MSDS696>