Intro to Data Visualization in Python

- Understand how data visualization fits in the data science workflow and its importance

- Be able to import a package in python

- Be able to read a dataset in with python

- Understand the different ways of exploring data and its use cases

  - Visualizing distributions

  - Visualizing categorical counts

  - Visualizing relationships between numeric variables

- Know the data visualization best practices (axis labels, titles, colors, figure sizes)

- Understand how to explore the distributions of columns of the data

  - Plotting histograms with matplotlib and pandas and interpreting the output

  - Plotting boxplots with matplotlib and pandas and interpreting the output

- Understand how to visualize categorical counts of the data

  - Plotting bar charts with matplotlib and pandas and interpreting the output

  - Plotting horizontal bar charts with matplotlib and pandas and interpreting the output

- Understand how to visualize relationships between numeric variables in data

  - Plotting scatter plots with matplotlib and pandas and interpreting the output

  - Be able to identify whether there is a strong, weak, or no relationship between the variables