Chart, histogram

Description automatically generated

**Entity Academy: Data Wrangling and Data Visualization Lesson 4**

**According to this simple histogram, the highest frequencies or instances of registered Power Boats in Florida peaked at year 7 twice around 675K~725K and 965K to 1.15M. While much too simple to display the many details of the Power Boat dataset, without worry, I am able to produce a similar example using the seaborn and matplotlib packages in Python, specifically using Jupyter Notebook—indicative of the images that follow:**

**Your text here**

**Chart, histogram

Description automatically generatedThis is a seaborn packaged histogram displaying that as time increased, the number of registered power boats in Florida took some dips and dives before ultimately increasing to over a million registered powerboats. What is next is the matplotlib package:**

**Chart, histogram

Description automatically generatedThough barely visible upon first glance, at specific angles, once can see the matplotlib packaged chart of the same power boat dataset exhibiting the same results: that there was an overall increase in the number of registered powerboats in Florida over the course of 35 years. This is the end of part one data analysis.**

**Chart, bar chart

Description automatically generatedAs seen here, the Jaguar is more popular than the other car brands mentioned in this dataset, with the least popular being the Datsun. The next chart will display a stacked bar chart including the regions and popularity of these select car models, a much more detailed display of car model notoriety amidst different regions assumedly in the United States. I will summarize the results produced upon Data Wrangling and Visualization via Python Programming for car model popularity in different regions of assumedly the United States.**

**Jaguar held the most popularity in the Southwest regions of the United States, as well as the Northwest, and East. Datsun held the lowest popualrity in the East, Northwest, and Southwest.Chart, bar chart

Description automatically generated Ford and Dodge were nearly neck and neck in popularity for all three locations within the United States, with Mitsubishi being second to last in popularity.**

**Chart, scatter chart

Description automatically generatedThis scatterplot displays the head length and the body length of estuarine crocodiles from a crocodile data set. After much data wrangling and visualization of data, the scatterplot revealed that as the head length of the estuarine crocodiles increased, so did the length of their bodies in a steady manner.**

**The final chart that will be displayed and summarized is based on a dataset tracking heart attacks treated at a hospital chain in a large US city.**

**Chart, line chart

Description automatically generated**

**This severely, jagged appearance that this line graph produces as it accurately measures the data provided exhibits the unstable rise and fall of heart attack instances and even the sudden increase toward more recent times. The highest occurrence of heart attacks seemed to peak towards the end of July 2003.**

**This has been my single report showcasing my skills and knowledge regarding data wrangling and visualization using the Python Programming Language in Jupyter Notebooks.**