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Data Analytics and Visualization Bootcamp

April 12, 2022

**Week 9 Challenge Written Analysis**

**Overview**

This week I was tasked with analyzing temperature trends in Hawaii to determine if a combination surf/ice cream shop would be sustainable year-round. I focused on the temperature data on June and December to see the trends on opposite sides of the data spectrum

**Results**

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**Summary**

To get a better contextual understanding of the subject matter, I researched a bit into what temperature or temperature ranges are considered comfortable and safe to surf in. I learned that the comfortable range for surfing in swimsuits is 66-70 degrees Fahrenheit, while a wetsuit will allow surfers to endure as low as 50-55 degrees. The average temperatures in June and December (74.94 and 71.04 respectively) are both above the minimum range to comfortably surf in beachwear like swimsuits and boardshorts. The minimum temperature in December is 56 degrees, which is a safe temperature in a wetsuit. These results show that year-round surfing in this location is definitely possible. Also, the slight variation in temperatures would allow for seasonal merchandise, such as summer swimwear and warm wetsuits, as well as seasonal flavors of ice cream and mix-ins. Additional factors that would be interesting to look into would be rainfall and windspeed. Since both of these can greatly influence the safety and quality of the surfing experience.