**Project 1 – Written Report**

**Misha’s Hypothesis**

* **HYPOTHESIS 1 - (MISHA)**
  + *“Happy” is the main effect experienced by hybrid type cannabis and how does it compare with other types.*
    - There is a total of up to five effects reported for each type of cannabis (five effects for each row of data) but the analysis for this hypothesis was done considering the first effect reported only. To identify the main effect experienced by each type, it was necessary to get the total count of values for each effect for each type. After doing so, it was possible to plot donut and pie charts that reflected the total percentages for each feeling reported per type of cannabis. This information proved that the main effect experienced by Hybrid type cannabis is “relaxed” with a 31.4% and happy is the second most common effect with a 26.7%. Therefore, our hypothesis is not true. Regarding the other type of cannabis, Indica also showed “relaxed” as the main effect experienced with a high percentage of 71.3%. And it is very interesting to note that the type of cannabis that indeed reflects “happy” as the main effect is Sativa with 28.7%.

A circular chart with different colored circles

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A pie chart with different colored lines

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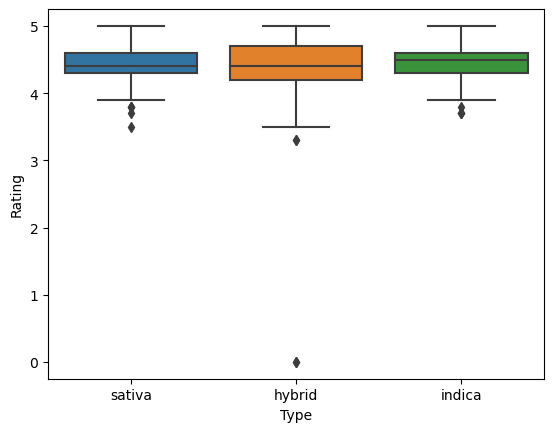
* + - While working on Hypothesis 1, it became interesting to us to see what the main effect is reported (looking at Effect 1) when consuming Cannabis regardless of the type. To figure this out, we decided to take the total count of effects reported and compare the results. To visually display this information, we decided to make a bar graph. The results showed that “Relaxed” is the main effect experienced followed by “Happy” and “Euphoric”. It is also interesting to mention that “Giggly” was the least effect experienced.

A graph of different colored bars

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* **HYPOTHESIS 4 - (MISHA’s PART)**
  + *There is a significant difference in rating when comparing different types of cannabis.*
    - We wanted to see if there was a type of cannabis with better or worse ratings compared to the other types. To figure out this information, we decided to collect statistical evidence such as the mean and P-values of the ratings for each type. After doing so, we made two types of visual representations to better capture the results. The analysis proved that there is no significant difference in the ratings since all three types have very similar average ratings ranging from 4.35 to 4.46. In addition to this, the P-values calculated after comparing two types at a time and all three together, were greater than 0.05 which means that there is no significant correlation between the rating and cannabis type.

A diagram of different colored rhombus shapes

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A screenshot of a computer

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