**On a scale of 5**

**Q1. Rate your Favourite Internet Browsers (Google Chrome, Mozilla Firefox,  Microsoft Edge, Apple Safari)**

**Q2. Rate them with respect to these attributes (High Performance, Easy-to-use, Safe & Secure, User Experience)**

1. **Observations and Probabilities Table**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | | **Favorite Internet Browsers** | | | |  |  |
| **Google Chrome** | **Mozilla Firefox** | **Microsoft Edge** | **Apple Safari** | **Totals** | **Probabilities** |
| **Favorite Features** | **High Performance** | 10 | 5 | 2 | 8 | 25 | 0.25 |
| **Easy-to-use** | 8 | 5 | 3 | 4 | 20 | 0.20 |
| **Safe & Secure** | 6 | 3 | 2 | 4 | 15 | 0.15 |
| **User Experience** | 26 | 7 | 3 | 4 | 40 | 0.40 |
|  | **Totals** | 50 | 20 | 10 | 20 | 100 | 1.00 |
|  | **Probabilities** | 0.50 | 0.20 | 0.10 | 0.20 | 1.00 |

1. **Probability**

I have collected data from classmates, friends, and family and calculated the probabilities accordingly.

In this analysis process, I learn that the favorite eatery was McDonalds and the reason mainly to choose is Taste. This data won’t be suffice, I have to go further and collect more data so that I can create models to predict the food habits of people.

1. **Concepts**

In my previous college, I used to have course on Sets, Probability, and Statistics and this course has enhanced my skills.

* Union event probability: P (A ⋃ B) = P(A) + P(B) – P (A ∩ B)
* If two events are mutually exclusive: P (A ⋃ B) = P(A) + P(B)
* If two events are independent: P (A ∩ B) = P(A)P(B)

**Description:**

1. I have learned how to **collect, analyze,** and calculate **probabilities** based on the survey data
2. I can see that 50% of the users have found **Google Chrome** as their favorite browser
3. The top 3 best features picked up by the users are as follows: **User Experience, High Performance,** and **Easy-to-use**
4. **Google Chrome’s User Experience** alone holds more than 25% of the overall probabilities i.e., **0.26**
5. Only very few sets of users hold 2% i.e., **0.02** each in **Microsoft Edge’s** **High Performance** and **Safe & Secure** Features

In a nutshell, I can draw a conclusion that most users like **Google Chrome** as their favorite browsers followed by **Mozilla Firefox** and **Apple Safari**. And, the least used is **Microsoft Edge**. With the above data availability, we can see that many users have opted **User Experience** feature followed by **High Performance, Easy-to-use,** and **Safe & Secure** features

This data has helped me a lot to report various useful stats and provided me an overview to draw conclusions and make useful decisions accordingly.

**Questions:**

**Q1. What is your favorite browser? And What’s the overall probability of that browser?**

**Q2. What is your favorite feature? And What’s the probability of that feature and your favorite browser?**

1. **Concepts**

I have found the concepts of unions and Intersections very helpful and interesting as they have brushed up and gave a much clearer idea of what I have learned in my schooling, college, and university.

I have found an informative source on this topic and I wanted to share it with you all. Please refer to the below link:

URL: <https://courses.lumenlearning.com/boundless-statistics/chapter/what-are-the-chances/>