Data Visualization

During this project I did a lot, and I used many important technology and tools such as:

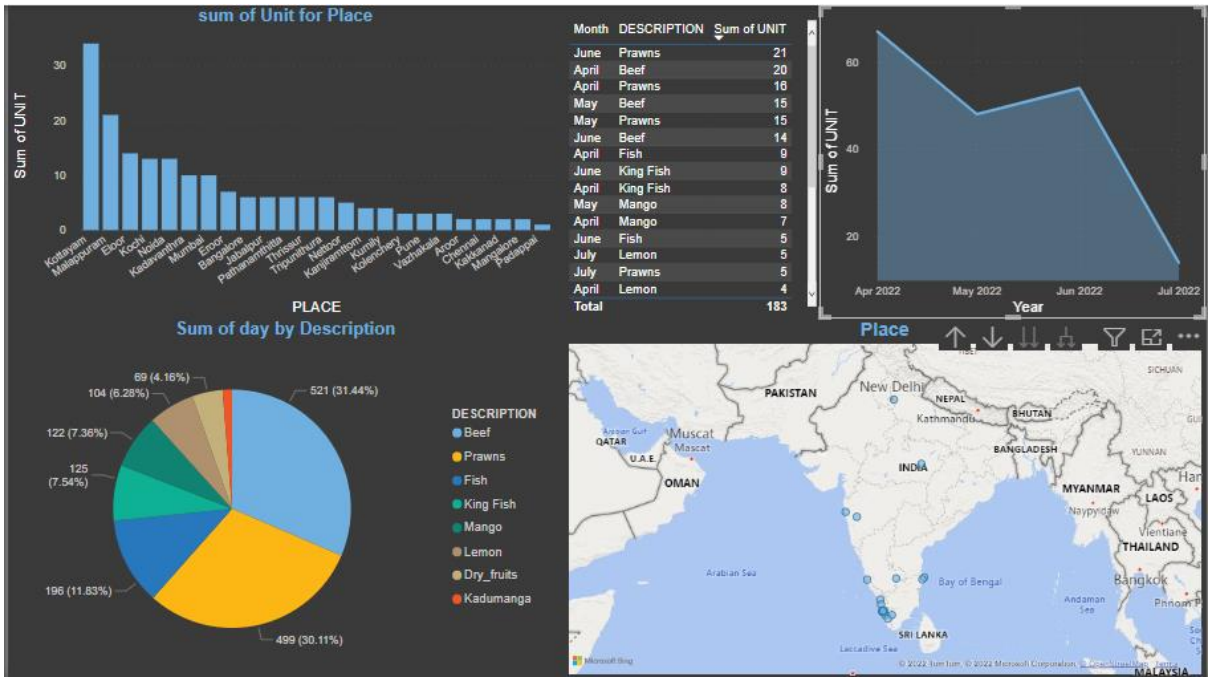
+ The programming language is Python.

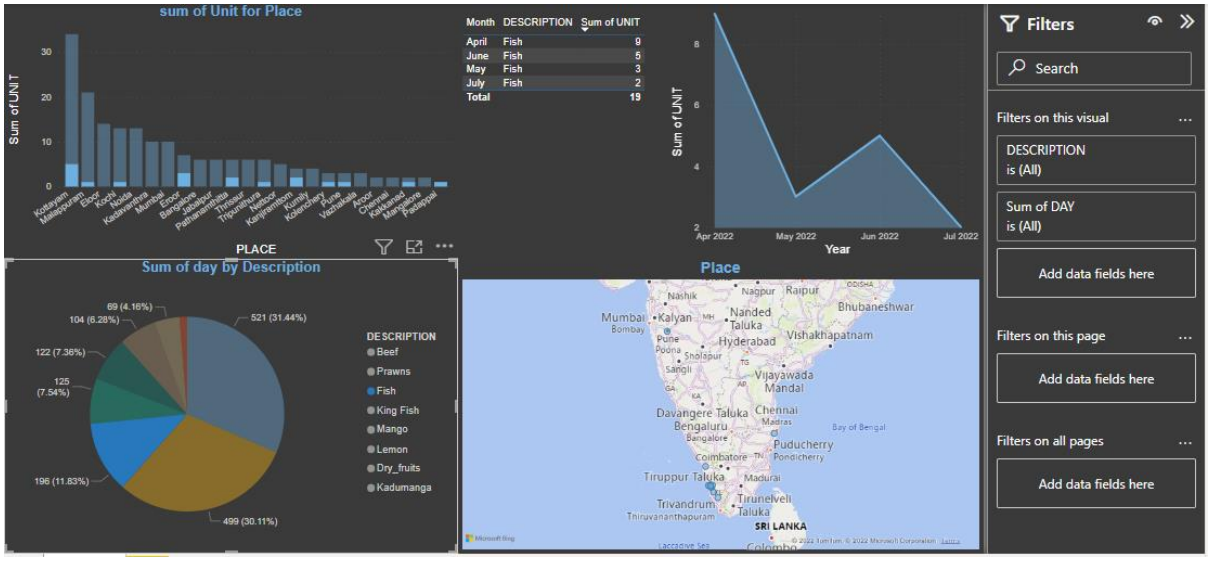
+ The power bi, specifically the PowerQuery.

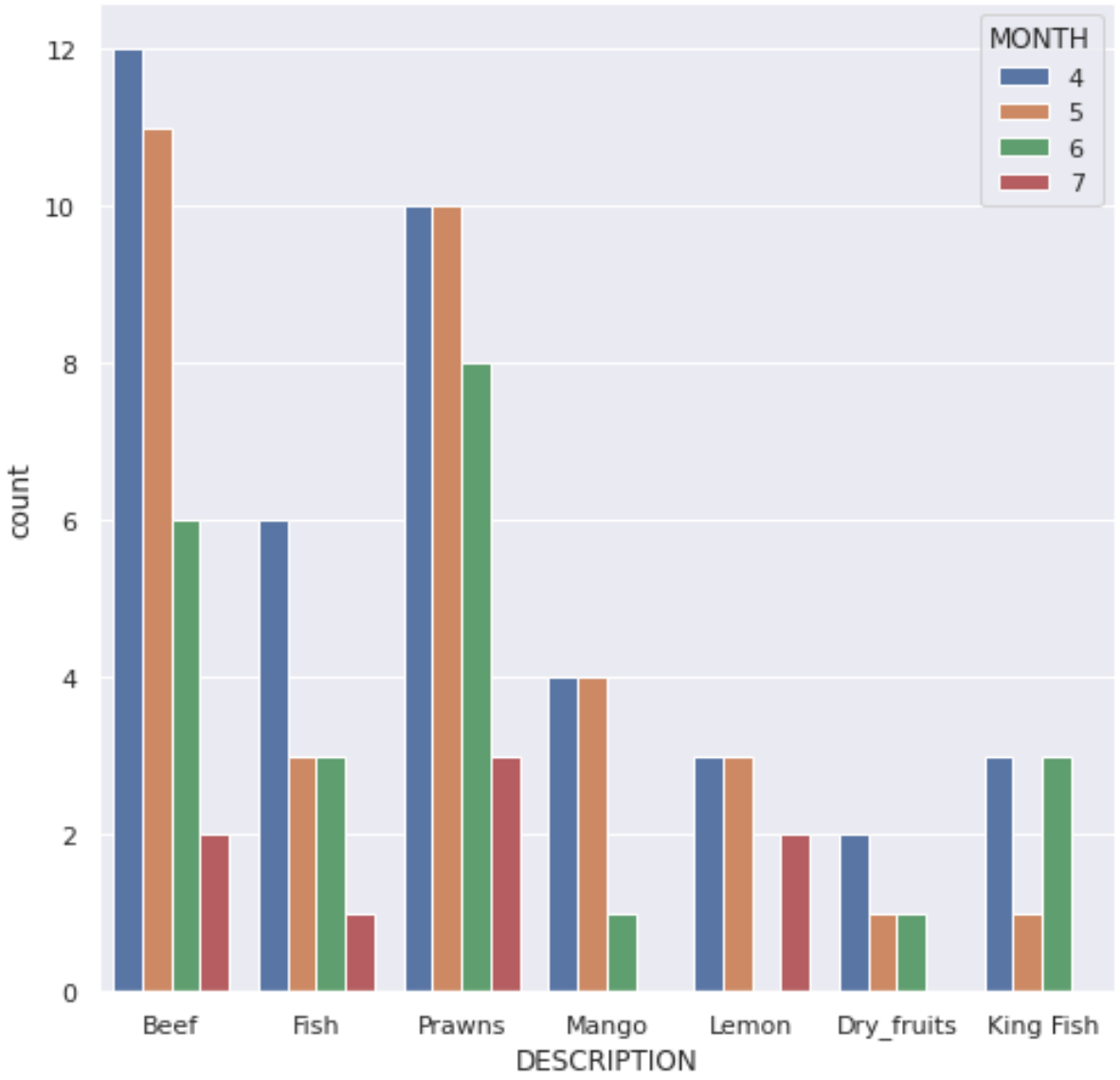
+ Statistical and analytical thinking.

+ I dealt with many problems and solved them.

Here is an example of some of the results I got, such as the following:







These are some pictures of the results I got, and there are more in the files.

During this project I did a lot, and I used many important technology and tools such as:

What happened: (Problem* and its solution -):

There are a lot of things that happened, from discovering some problems to assuming some solutions and applying those solutions later.

At first I explored the data that I had and discovered many problems such as

*** There are spaces between texts in the data.**

- These may lead to some problems while writing data visualization codes because the feature name consisting of two texts separated by a space leads to a bug.

*** The presence of inconsistent spaces in the texts.**

- Of course, this leads to some problems than trying to solve the previous problem, the solution to that problem may be different.

*** The presence of strange signs such as the (- /)**

These strange signs require another treatment condition, and they must be disposed of because they give different values during replacement.

*** There are words that have no meaning.**

- Of course, these words do not express anything in the data, and therefore keeping it will not be useful, and it will also be difficult to interpret the results that I obtained and they contain that.

*** There is missing data.**

- Missing data is one of the most sensitive and sensitive points when dealing with it, and therefore there are many ways to deal with these missing values and there is no unified method, but this problem must be solved in the appropriate way.

*** The presence of data that will constitute a problem later in the analysis and building of the dashboard.**

- Like data that was present in some columns, such as the place column, it contained the United States, which is the only one outside India, and therefore when building a map to put places on it, it will be very large and therefore if it is eliminated, the analysis will be clearer.

*** The presence of data with few features, and thus this makes the analysis process difficult.**

The data contains 4 columns, so it will not be easy to get a good analysis of the data with those few columns, when more of them can be extracted and the scope of the analysis is expanded.

*** Many other minor problems.**

- At that point, I alerted it to my code and solved it.

I tracked all these problems and put an effective solution to them.

There are some problems I solved using PowerQuery, and there are many problems I solved using Python.

The purpose of using PowerQuery and Python, although I could have solved all problems using PowerQuery, the reason is due to my attempt to prove my

ability and my understanding of many tools and technology that qualify me to solve the problems in front of me with many tools.

In order to increase the number of features I have in the data, I extracted the number of days, months and years and then I converted the days into weeks and I could have converted months into climatic seasons, but the data I had was few and therefore the number of months mentioned/extracted was few and therefore I did not I could not complete this part of the extraction.

In each of those stages I was making a visualization of the data that I obtained.

In the end I did a visualization of the data in general and trying to elicit some information from the visualizations I had already done and wrote comments about it.

What can I do next?

In fact, I can do a lot, such as setting a specific goal of data analysis, such as building an artificial intelligence algorithm or a neural network that works on predicting units or places of distribution in order to shorten distances, etc., I can do that because I am an expert in that.

I can also expand the field of data analysis in order to make strong and decisive decisions, and I can do this by increasing the volume of data and increasing the number of features in the data, and paying attention to data quality, and thus we can extract a lot of information and answer more difficult analytical questions.

There are a lot of other important things that I haven't talked about, but that's okay so far.

THNAK YOU.