

COVID'19 IMPACT ON AIRPORT-TRAFFIC



Selin Efsa TUG

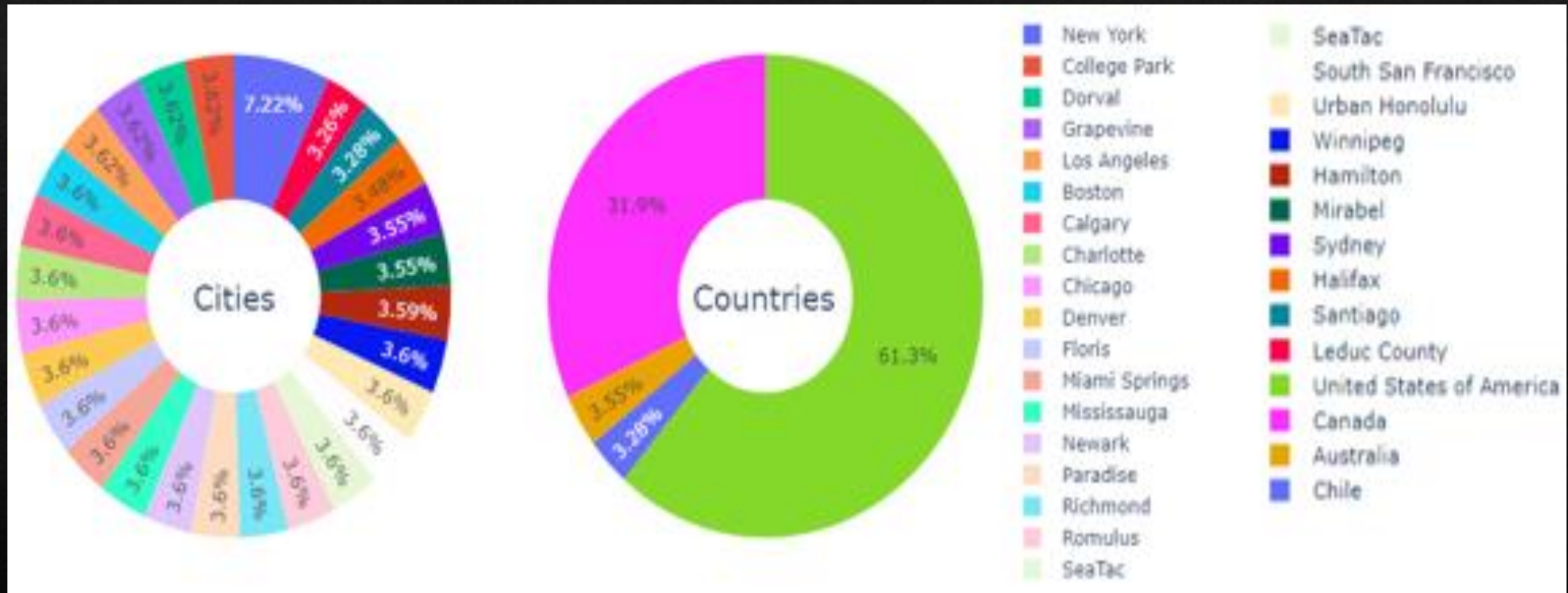
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INTRODUCTION

- ◆ Since the Covid-19 outbreak first emerged, it has greatly affected the world in every aspect of our lives. In order to slow down and stop the epidemic, many countries have issued travel restrictions, social distancing, or total closure orders, and so many businesses and operators have been affected. The travel industry is one of the most affected side. Many countries around the World have imposed travel restrictions, so the number of flights has decreased significantly in the worldwide. In this presentation, you can see some analyzes and results about the topic.

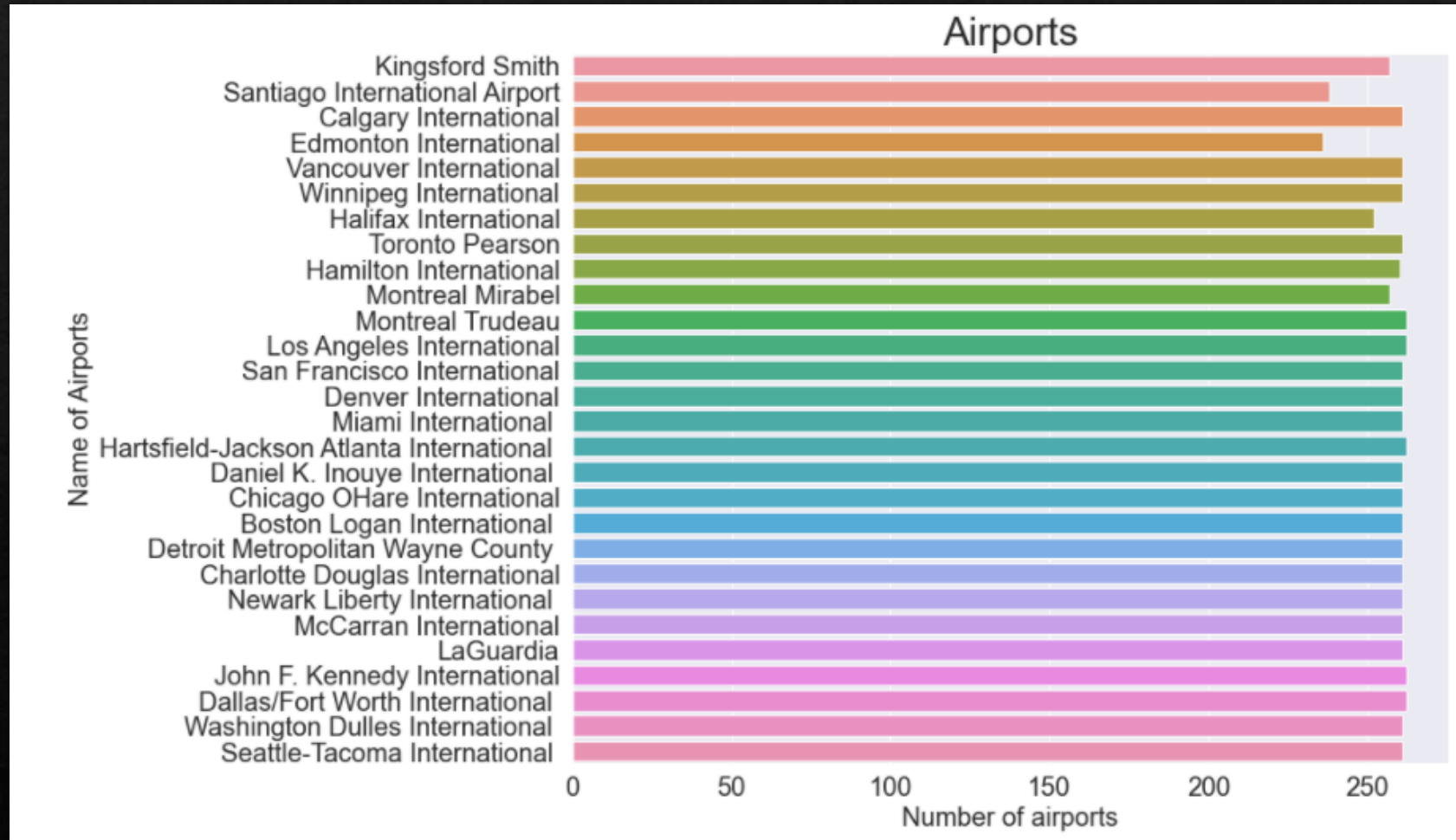
AIRPORTS BY CITIES & COUNTRIES



The majority airports in the USA as a country. Although the most airports are in the USA, three of the airports are exceptional. These are Arturo Merino Benítez International Airport in Santiago, Chile, and Inouye International Airport in Honolulu, Hawaii. Let's take a look at which airports have the most records in the dataset

AIRPORTS

There are 28 airports registered in this dataset.. It is seen that air traffic densities at many airports are very close to each other and their rates are very close to each other. You can easily see where the airports in the dataset are located the most and which ones are visited the most



WORLD MAP



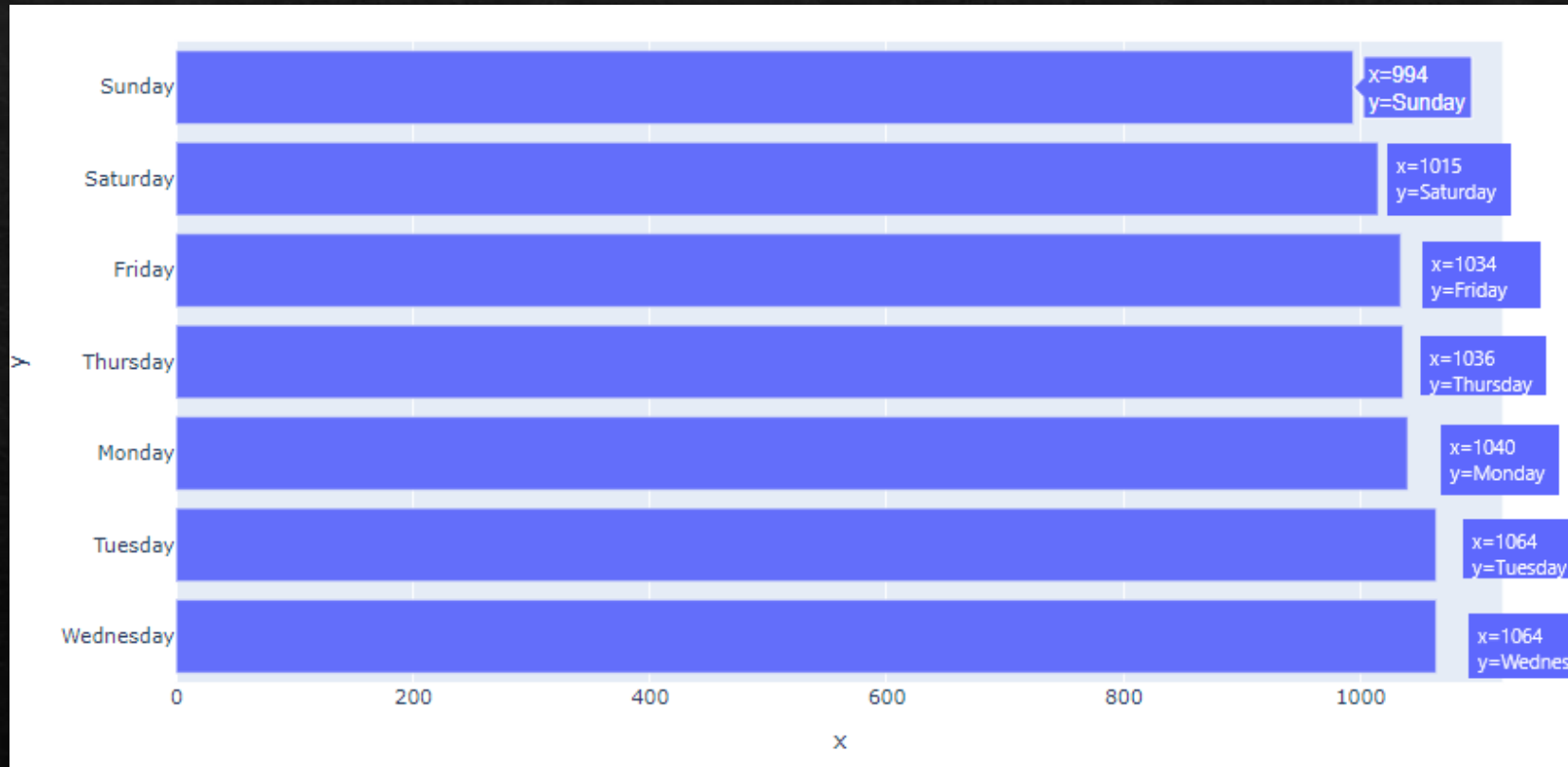
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It is an interactive map. You can reach this map via link.

<http://localhost:8888/notebooks/Desktop/university/D%C3%B6rd%C3%BCnc%C3%BC%20s%C4%B1n%C4%B1f/2.d%C3%B6nem/dataknowledge/MIS376-WorldMap.ipynb#>

EXPLORING BUSIEST DAY IN THE AIRPORT

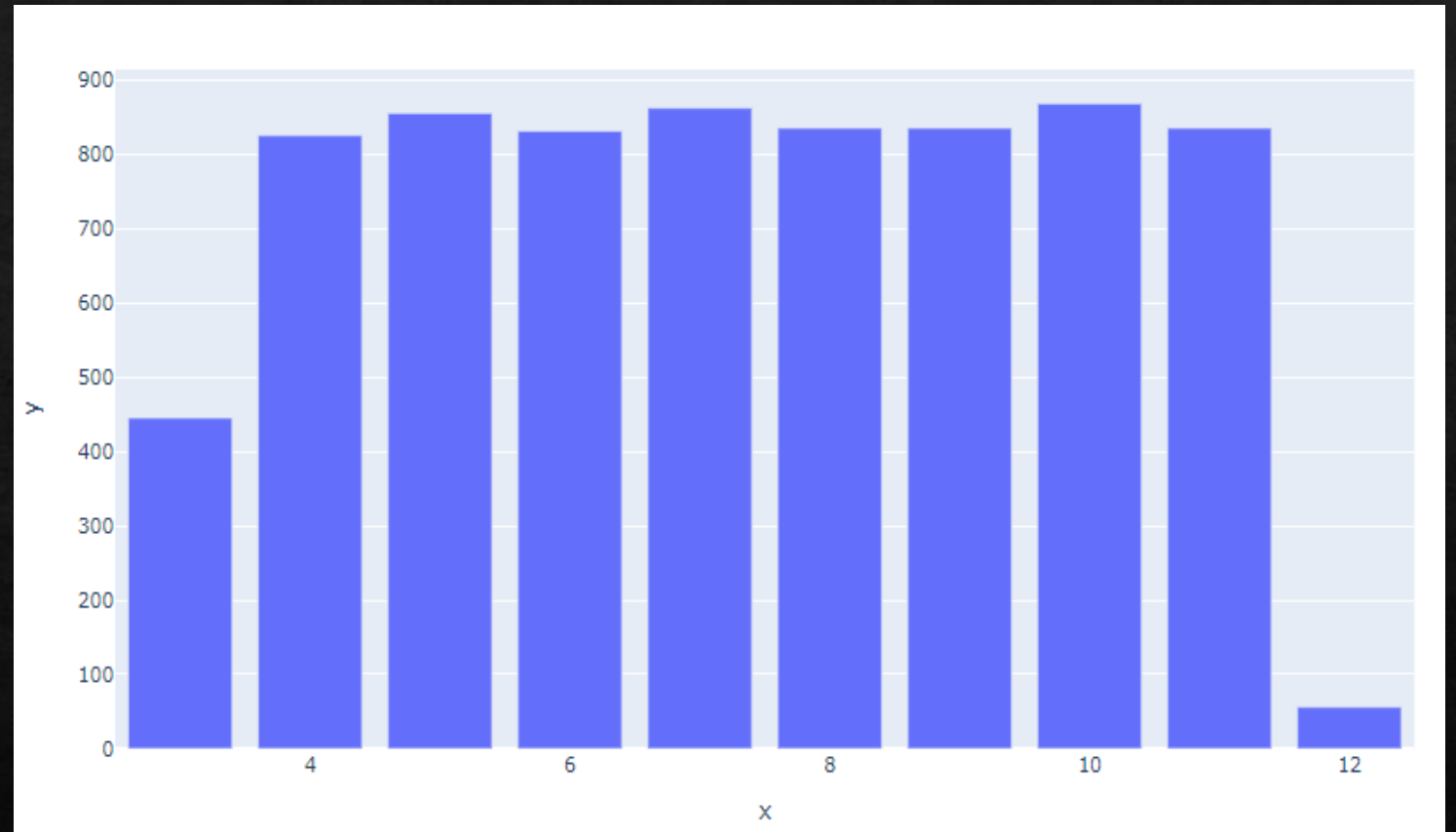
Air traffic density is a situation we encounter very often at airports. For example, flight times may be delayed or canceled for different reasons. We can obtain a clearer information by examining the recorded data for each day and each month.

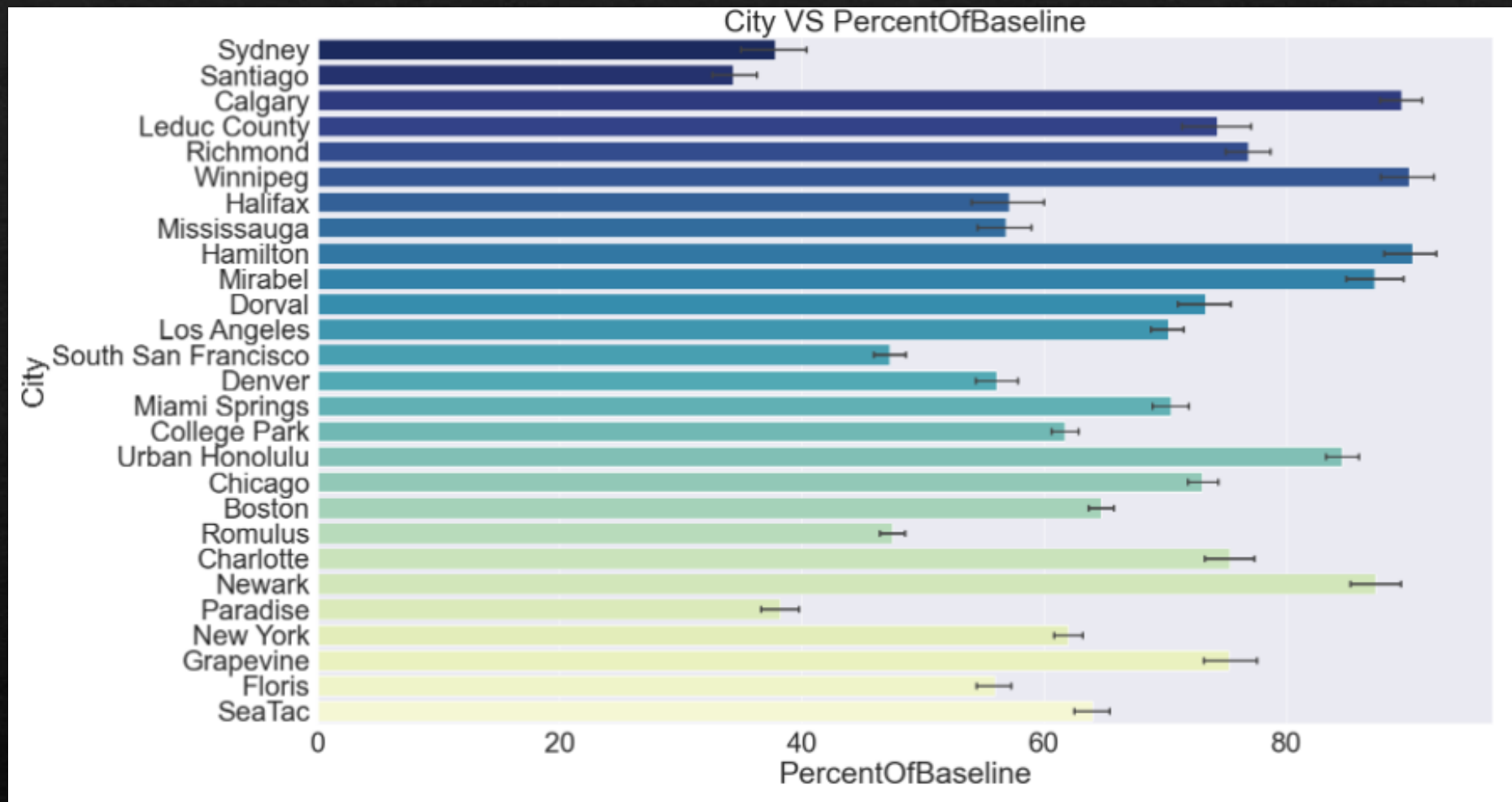


In this output, we can see there is no big differences between the days with the least crowding on Saturday and Sunday. However, the busiest day as you can see on Wednesday. The reason why it is so busy on wednesday may be that tickets are sold at cheaper prices in the middle of the week.

EXPLORING BUSIEST MONTH IN THE AIRPORT

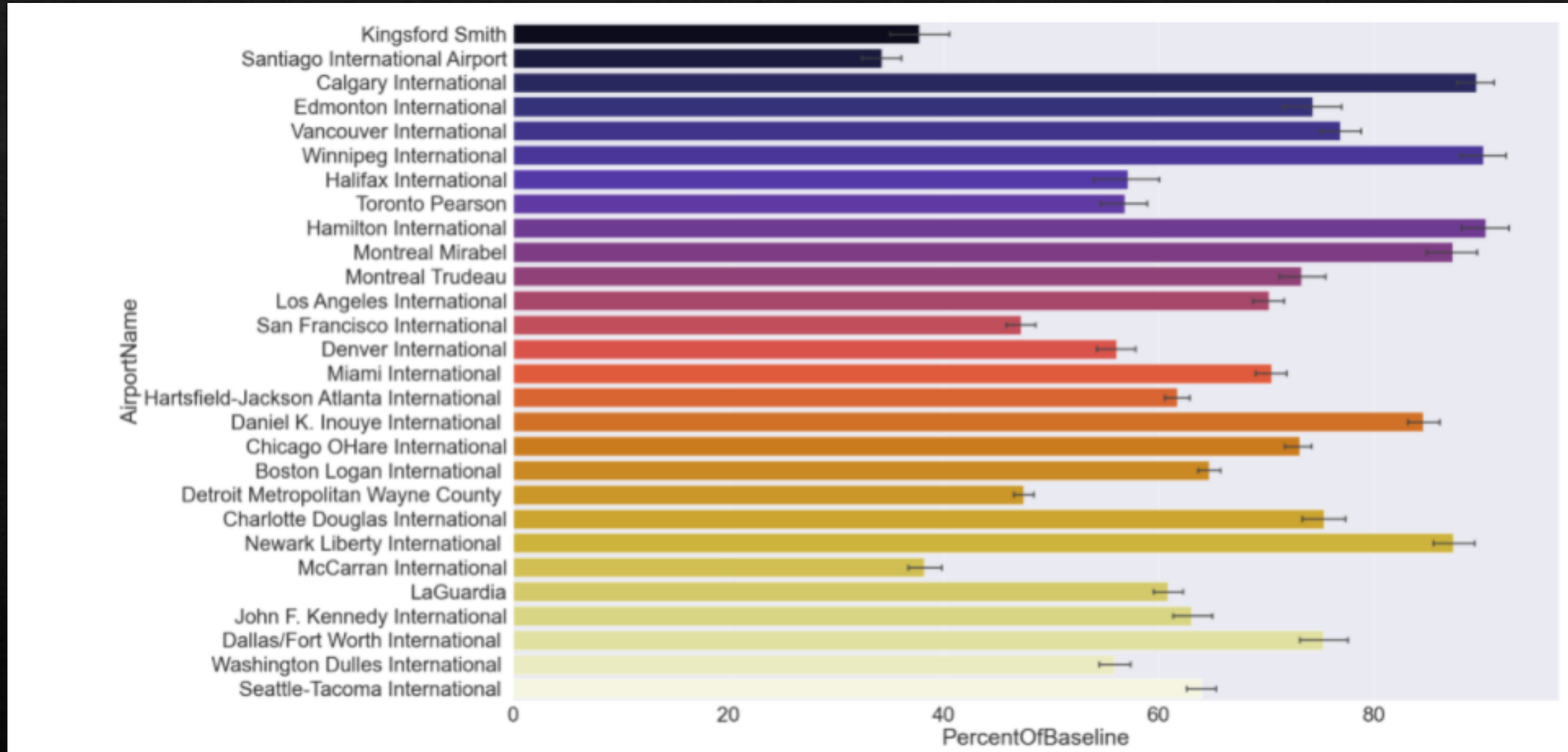
In this case, there are big differences between March and December. As the Covid-19's outbreak spread worldwide, the flight took place at least in March. Also, one reason why flight records were so low in December may be that many countries experienced a second peak of the virus





By examining the ratio of the flights on the specified date to the average number of flights on the same day of the week, the ratios by cities are seen in the figure above. As a result, the most and least visited cities were determined. In addition, we can also interpret according to countries, so we can say that whichever country has the busiest flight, there is more traffic in that country

Airports vs Percent of Baseline



The ratio of the plane flights to the average number of flights on the same day of the week according to the airports is shown in the figure above. Thus, I have determined which airport is heavily visited. As seen in the figure above, there is not much difference between some airports, but we can clearly see the least or the busiest airports

THE END

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