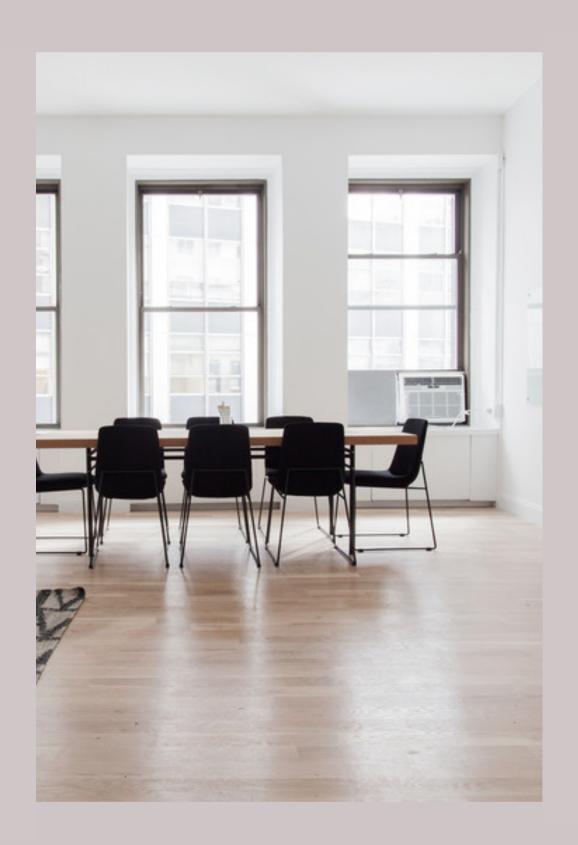
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### HOTEL REVENUE

Victoria Della Chiesa

Data Science Project - May 2022



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- Meet the Data
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### MEET THE DATA

2017 - 2022

Data analyzed

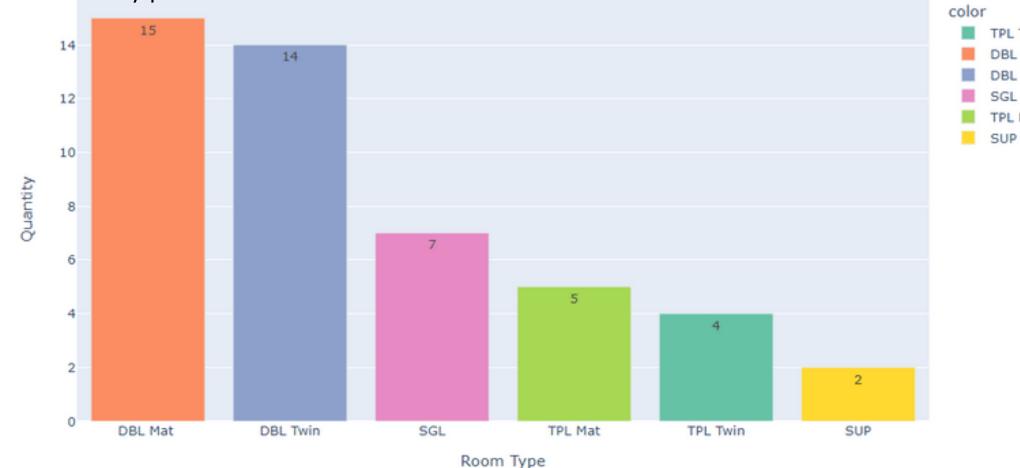
5

Years & 2 months of booking data

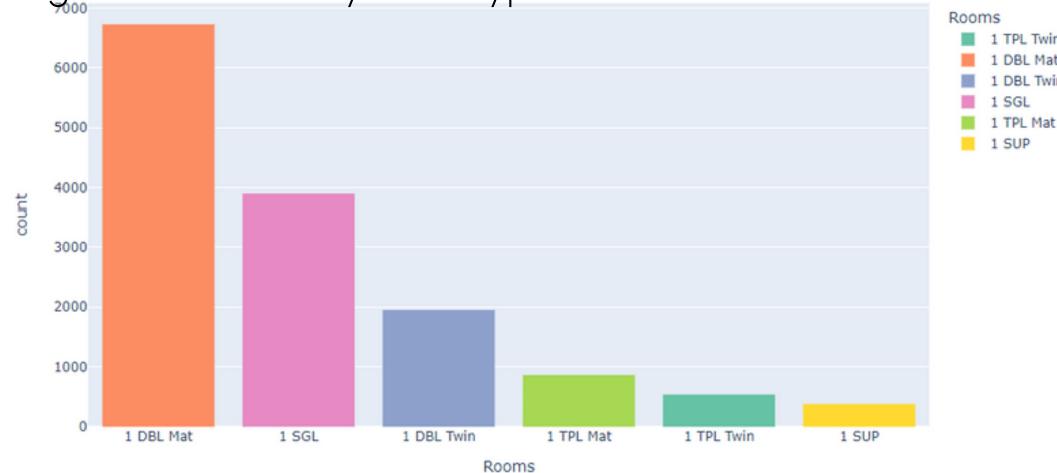
~ 16000

Bookings

Room Types



Nights confirmed by room type

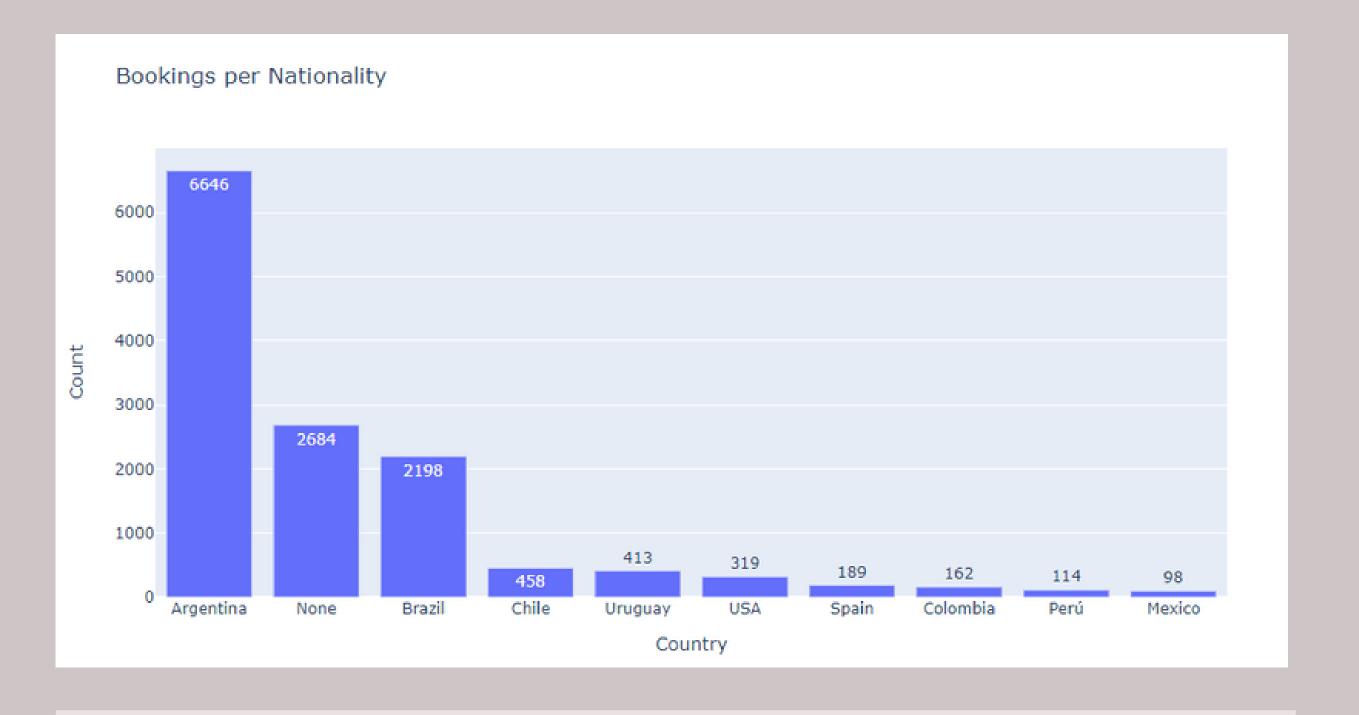


#### MEET THE HOTEL

- Buenos Aires City Hotel
- 45 rooms
- Average net price of USD50
- Higher demand for DBL rooms

There is a higher demand for Single Rooms (SGL) than available

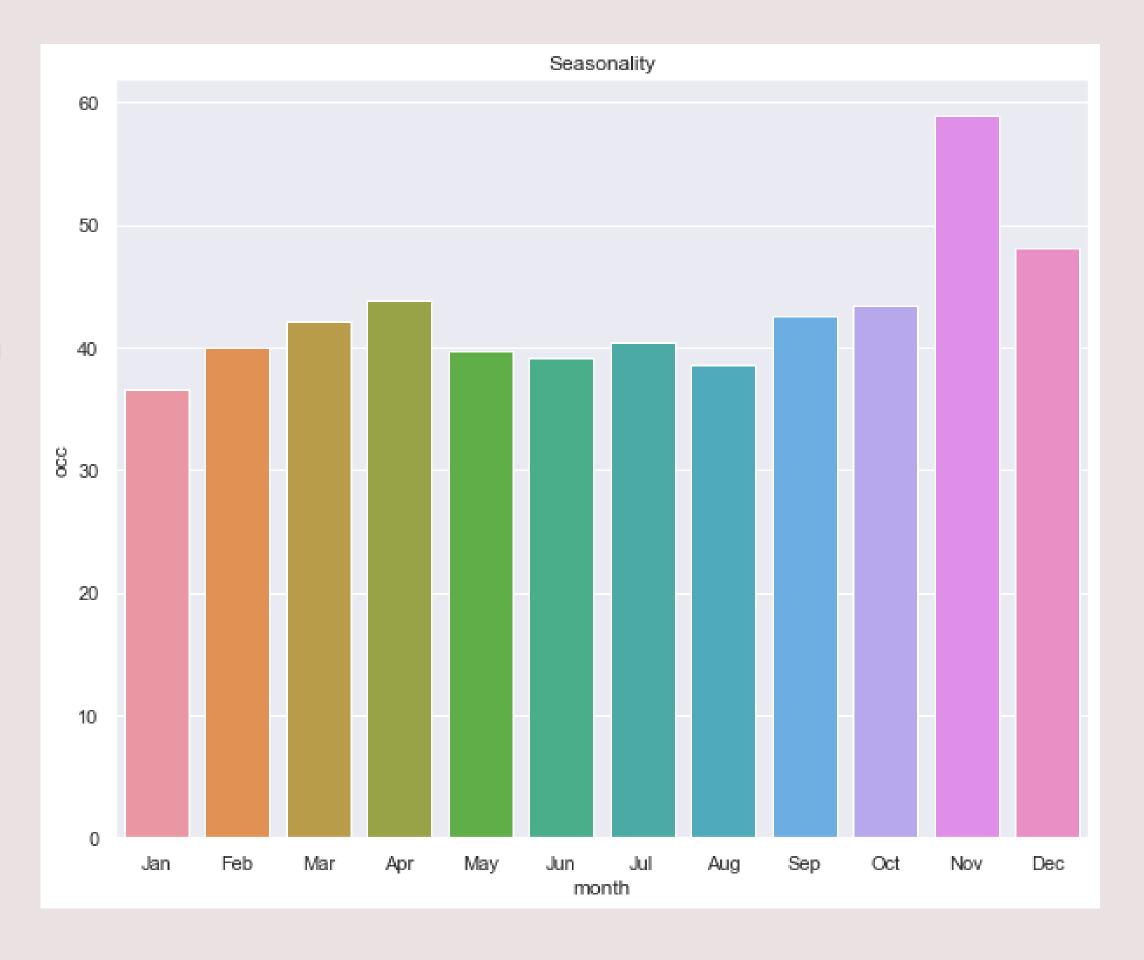
### WHO VISITED THE HOTEL?



During 2020 - 2021 the guests were on its majority form Argentina as the country was closed for tourism

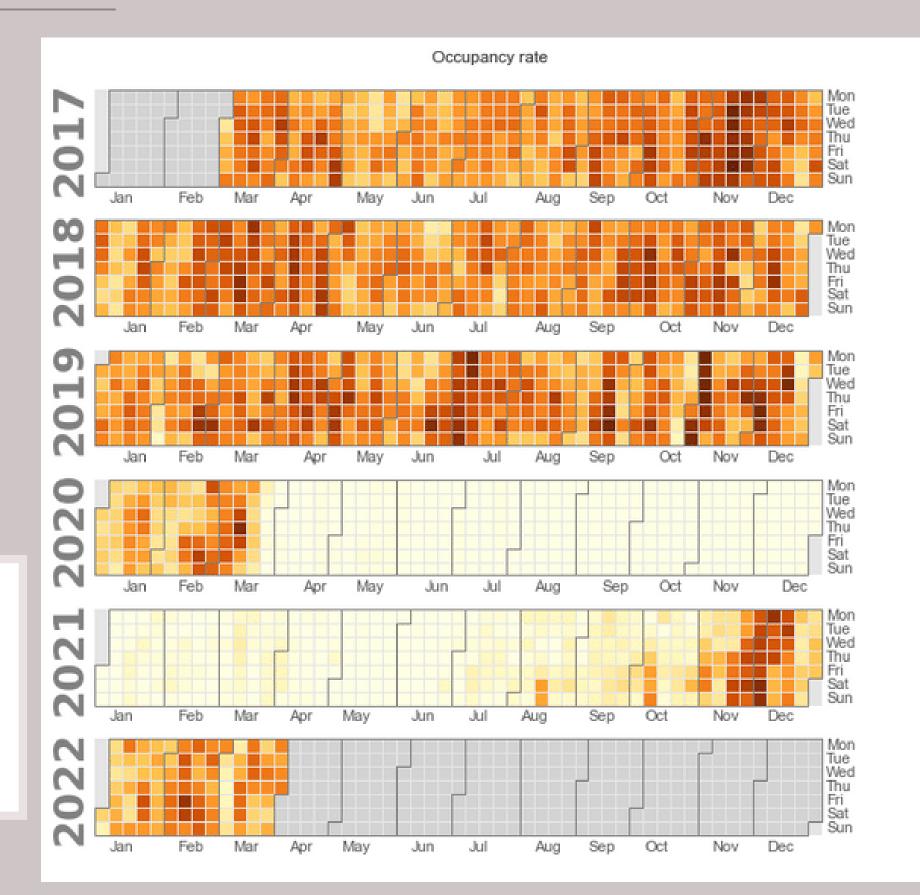
#### SEASONS

This hotel doesn't show a high seasonality, although we can see higher demands in March-April and Nov-Dec



#### OCCUPANCY RATE

2020 and 2021 were highly impacted by the Covid-19 pandemic.



0.8

0.7

0.4

0.3

0.2

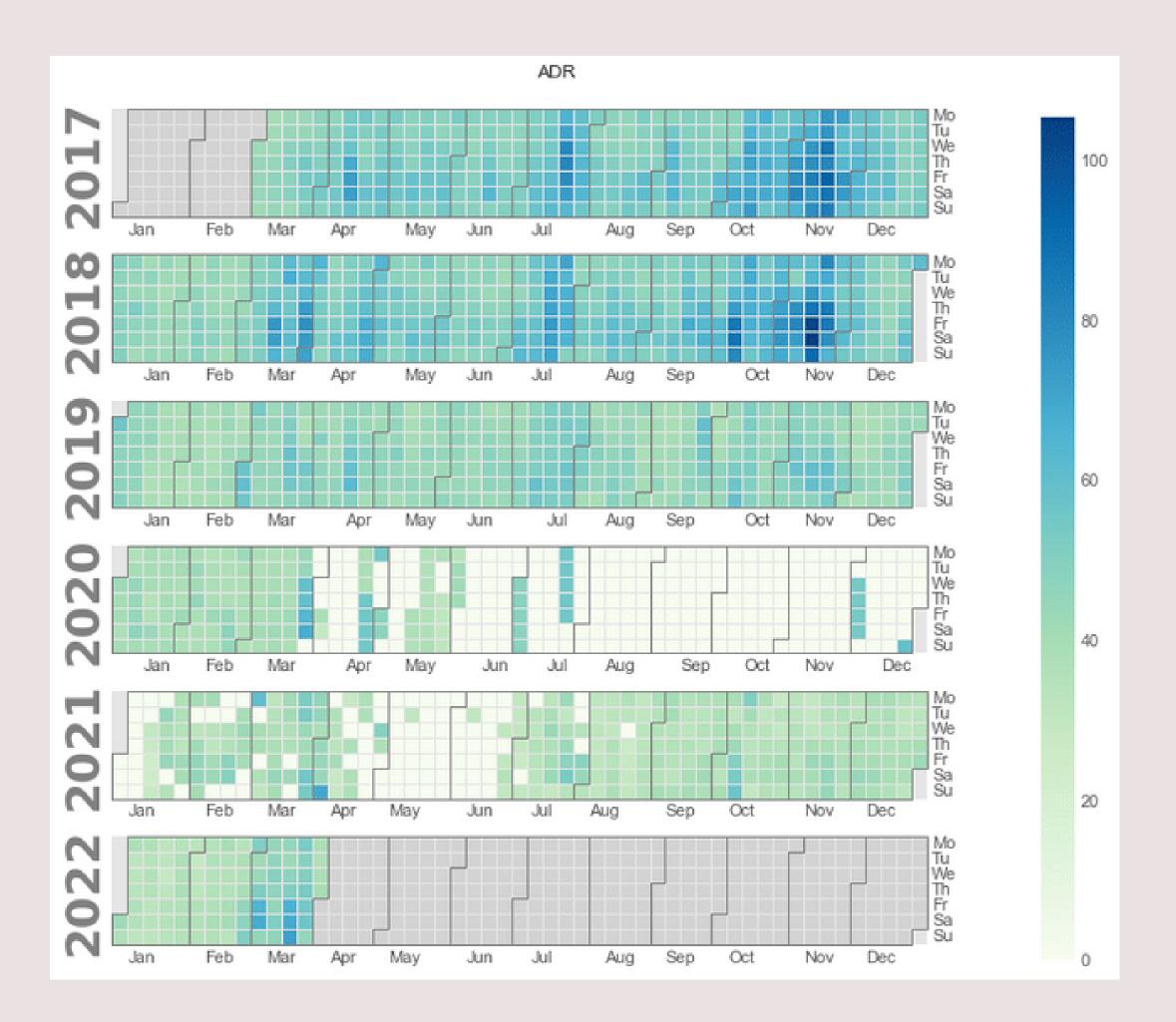
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10.

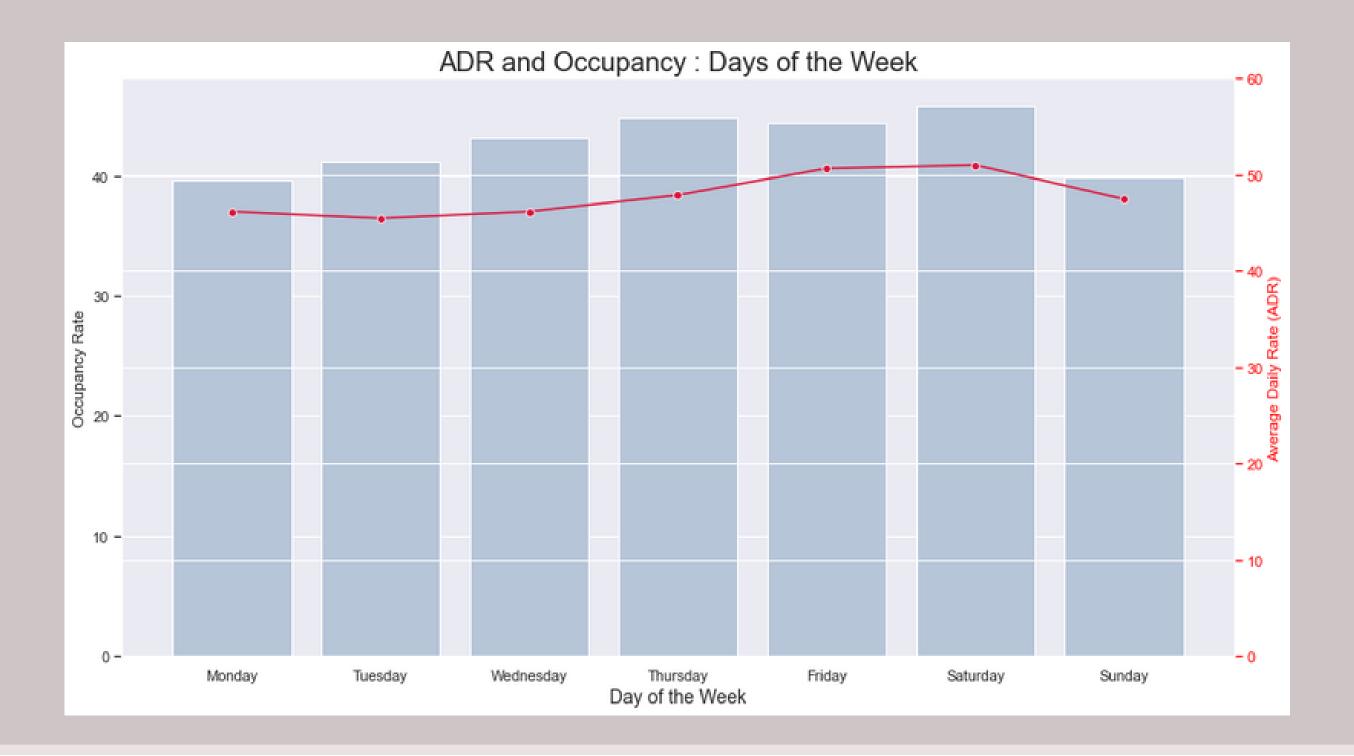
### AVERAGE DAILY RATE (ADR)

The same room type can be sold at different prices for the same date (long stay discount, when was the booking done, etc)

The ADR is the average room rate per night





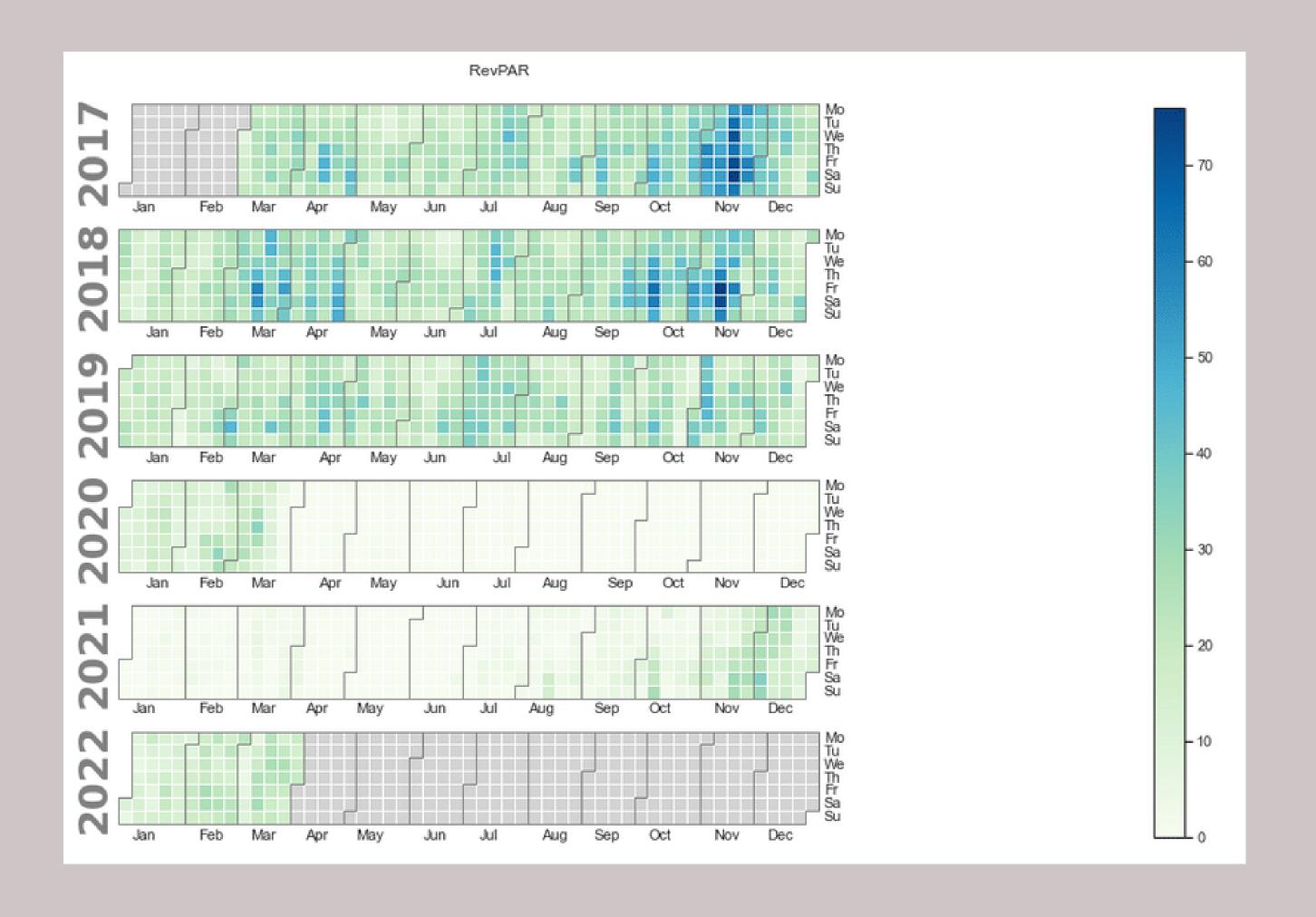


We can see that this hotel effectively manages its daily room rate to optimize the occ rate and revenue. (How to do this?...)

### REVPAR

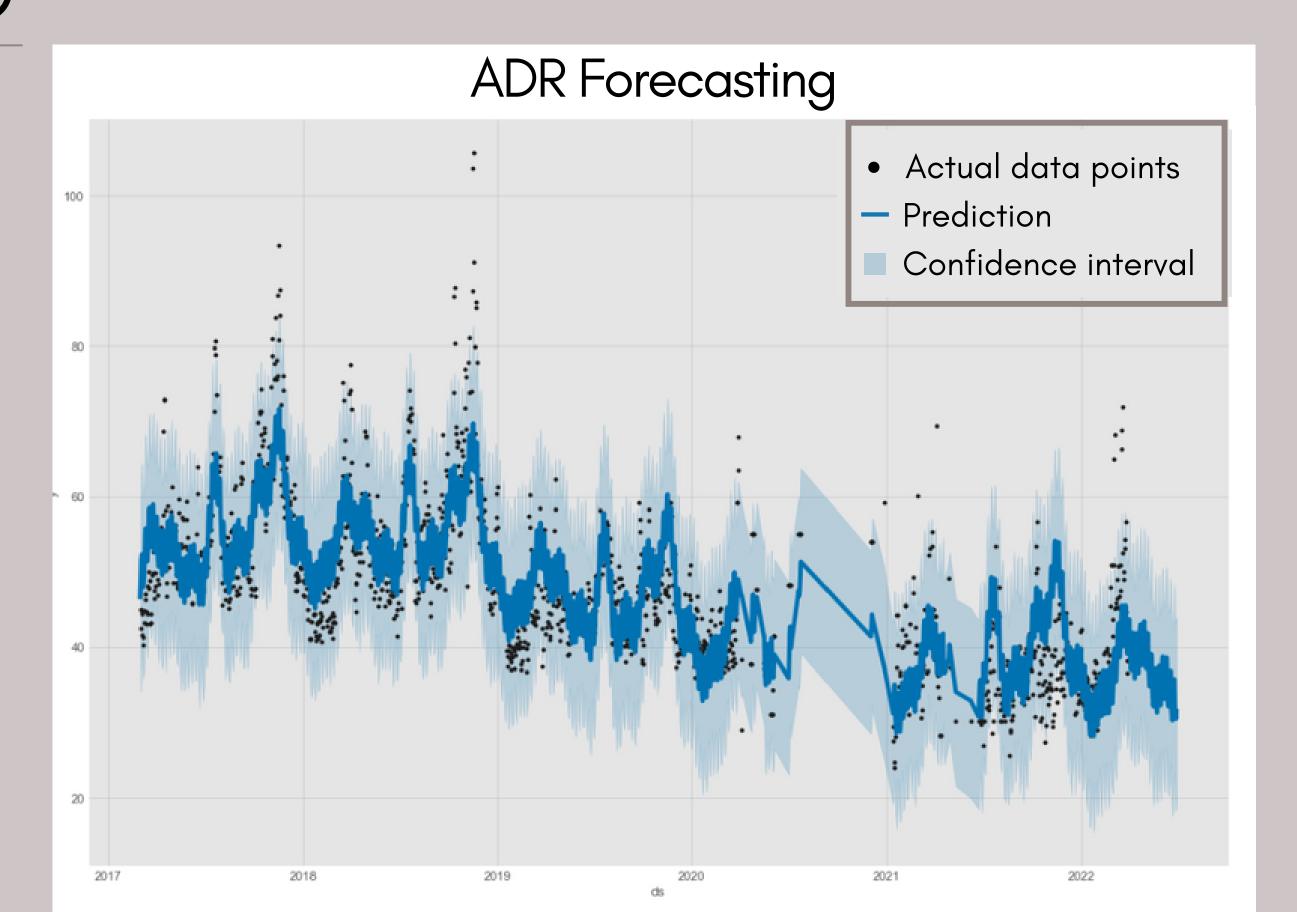
RevPAR, or Revenue Per Available Room, is one of the key performance metrics used in the hotel industry.

RevPAR = Occupancy Rate x ADR



### FORECASTING

Used ML models to predict Average Daily Rate for the next 90 days





### CONCLUSION

The tourism is picking up in Buenos Aires.

As we get further away from the Covid-19 more consistent data will be available & we will be able to apply these ML models to achieve more reliable predictions.

#### WHAT'S NEXT?

- Revised forecast with May-June bookings
- -projection and budgeting for 2023



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## FUTURE PLANS

- Revised forecast with May-June bookings
- Projection and budgeting for 2023



## THANK YOU



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