

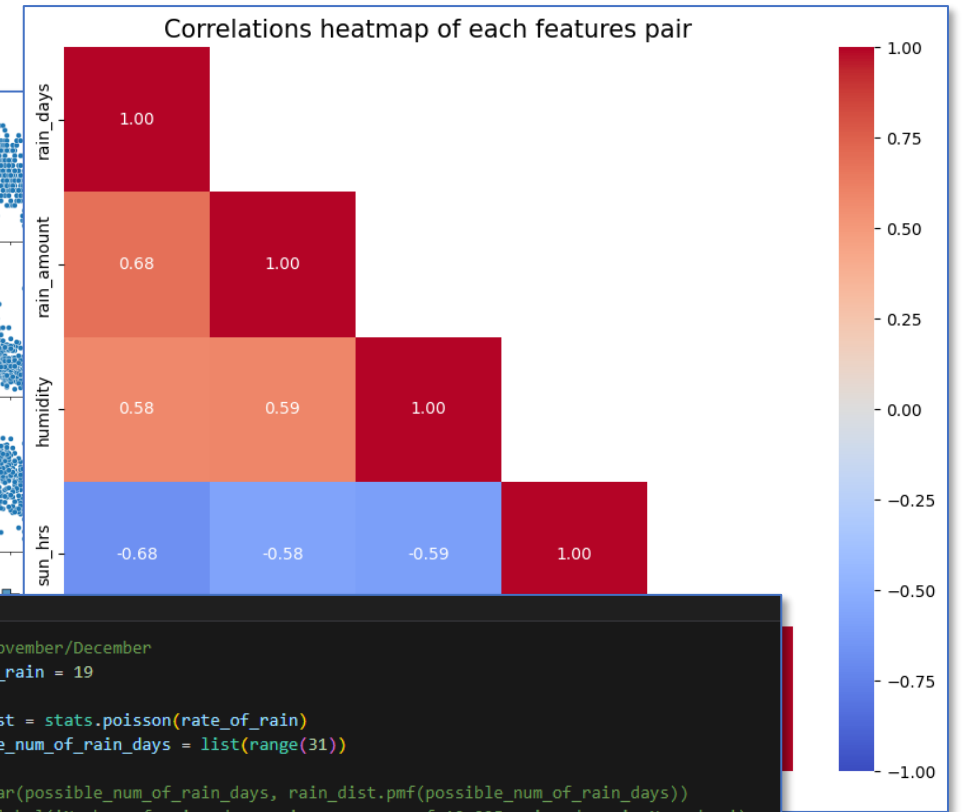
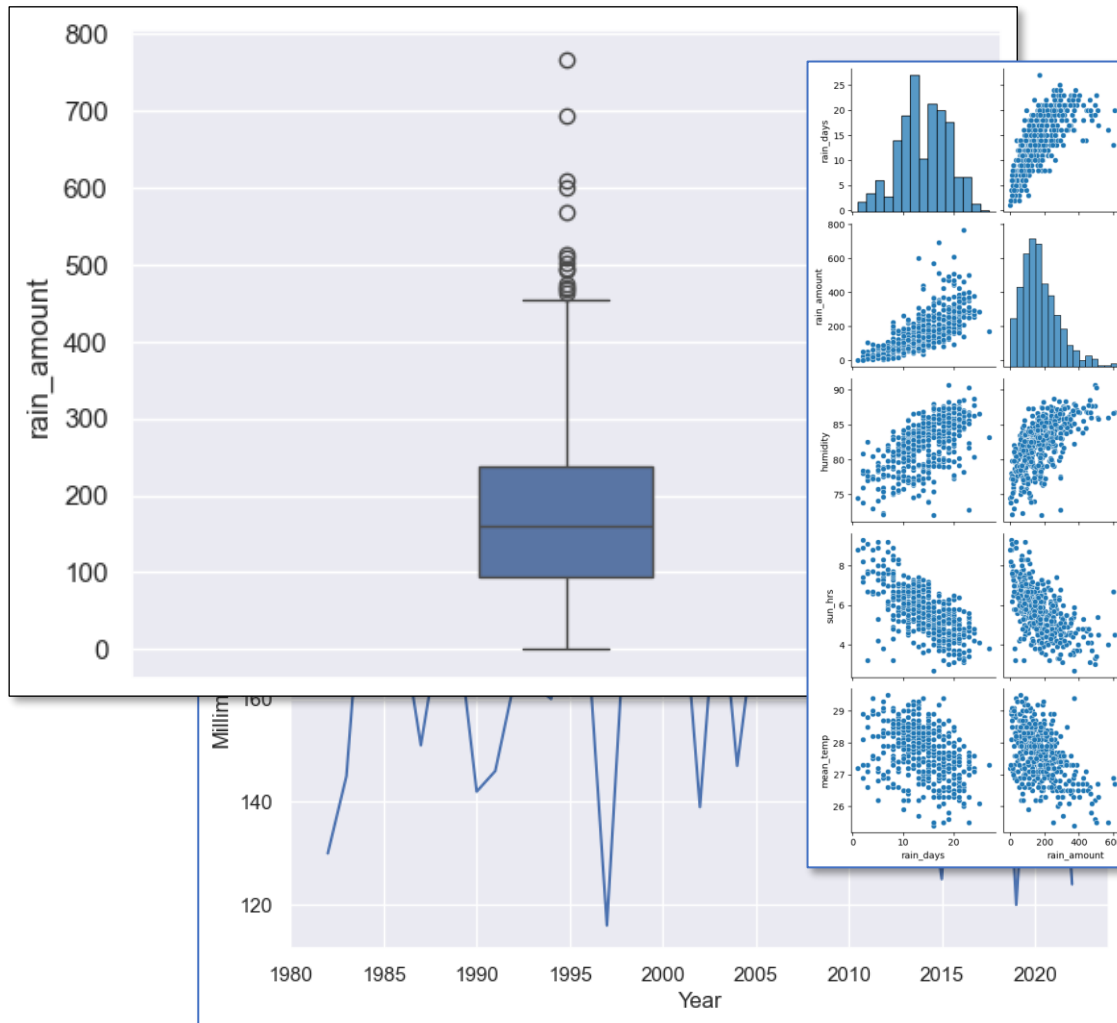
Singapore Rainfall

Data analysis for travelers

Problems

- When traveling to Singapore, it seems that visitor will likely to encounter rain whatever the month is.
- This analysis should be able to help those who plan to travel to Singapore to get better preparation and adaptation on their plan for the good traveling experience.

Procedures



```
# For November/December
rate_of_rain = 19

rain_dist = stats.poisson(rate_of_rain)
possible_num_of_rain_days = list(range(31))

# plt.bar(possible_num_of_rain_days, rain_dist.pmf(possible_num_of_rain_days))
# plt.xlabel('Number of rainy days, given average of 19.025 rainy days in November')
# plt.ylabel('Probability');
✓ 0.0s

# Chance of encounter more than 9 days of rain
1-rain_dist.cdf(8) - (1-rain_dist.cdf(31))
✓ 0.0s

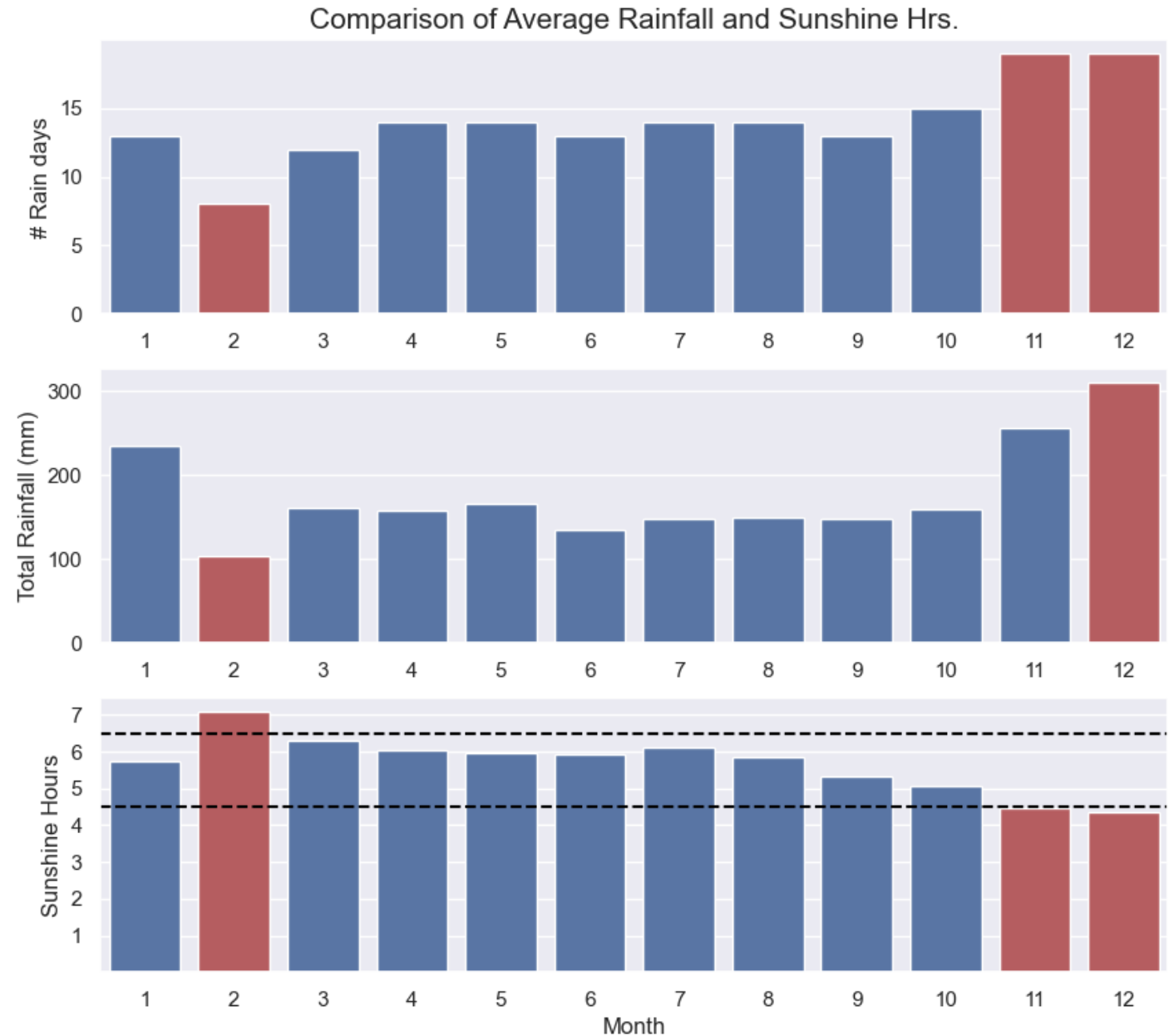
0.992128428625132
```

Rainfall and sunshine hours

Lowest rain in February

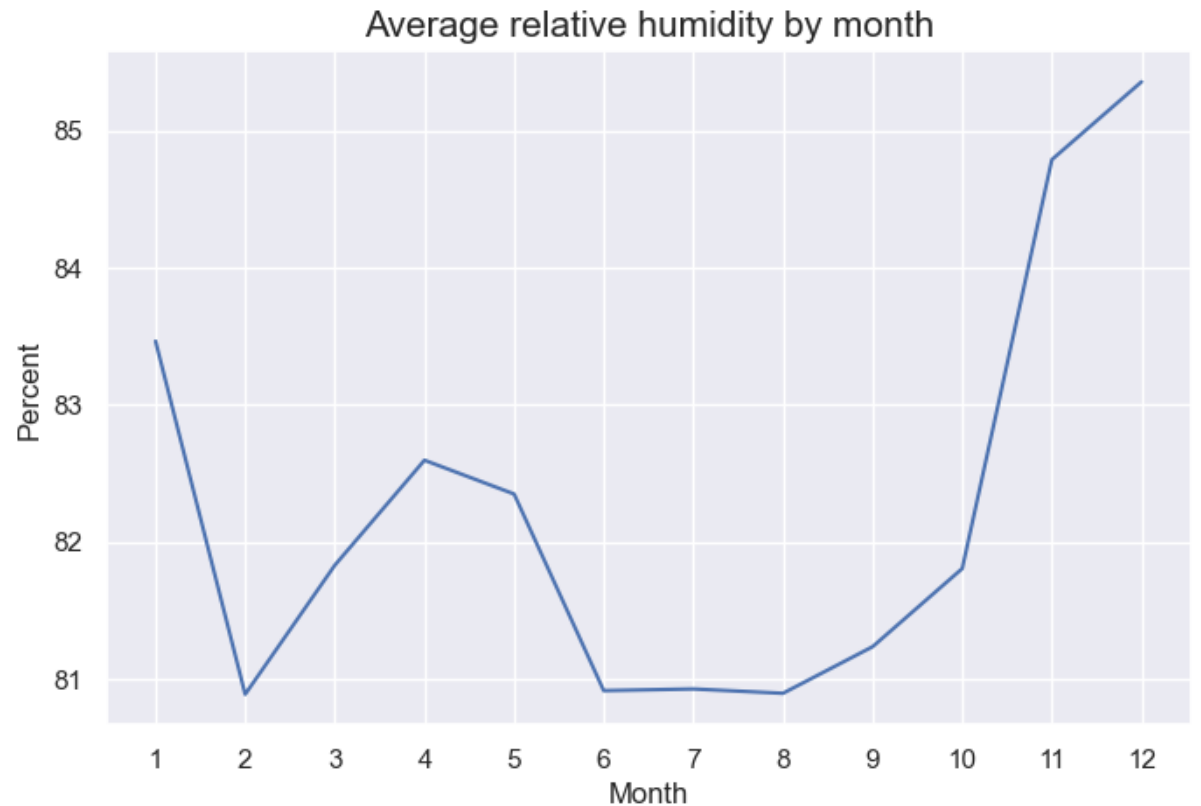
Avoid November and December

The lower the rain, the higher the sunshine hours



Always high humidity

Expect to feel sticky all day long
with the all-year high humidity



November & December: worst case scenario

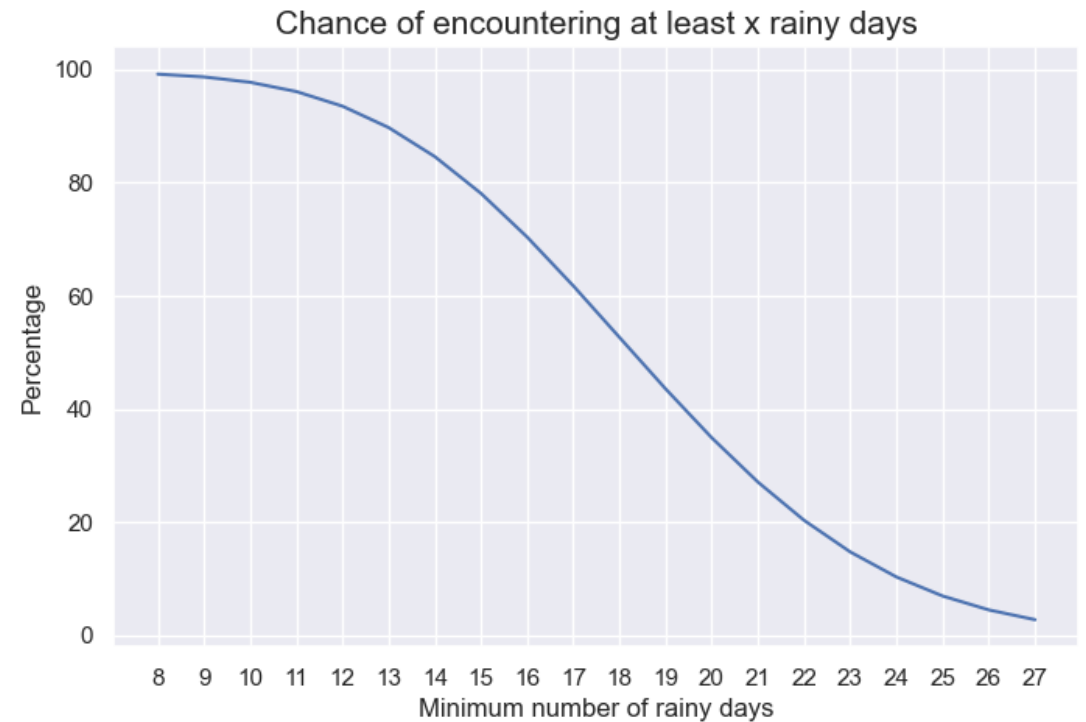
99%

chance of 9 rainy days or more

Focuses more or always prepare
for an indoor alternate plan

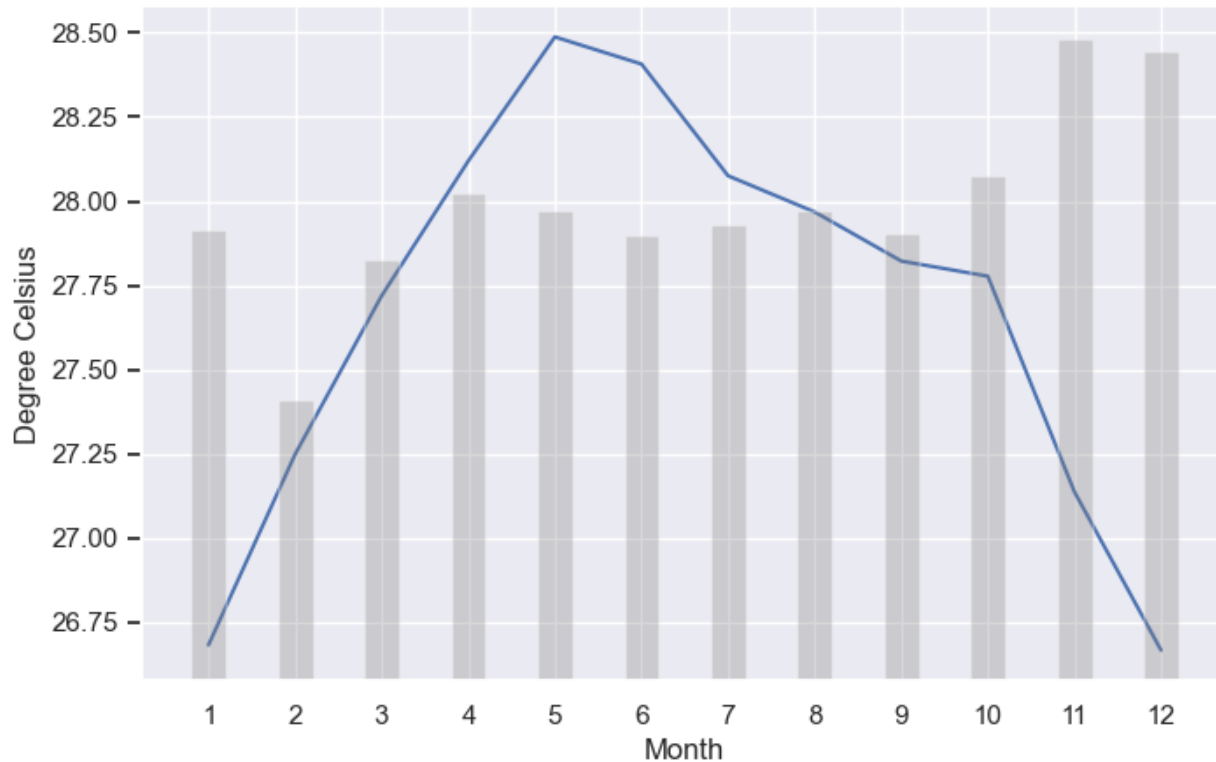
November & December: worst case scenario

Encountering more than
18 days is pure luck

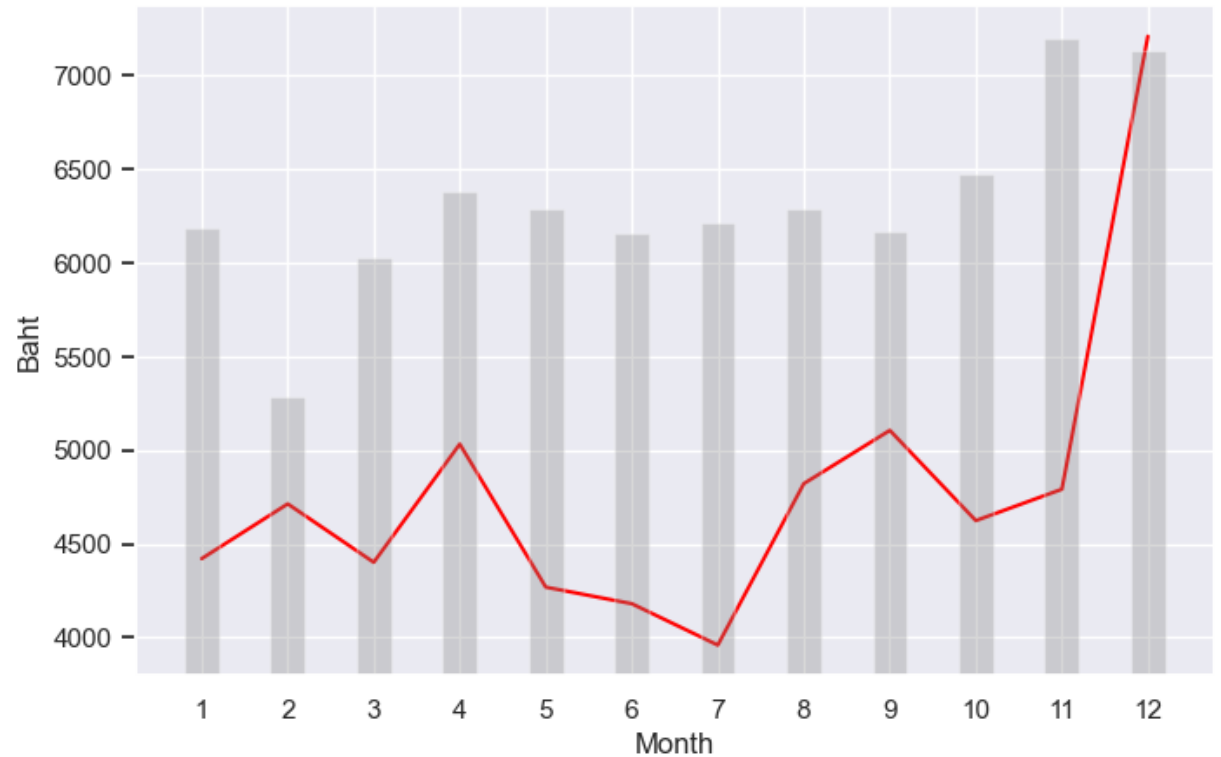


Other factors to be considered

Average surface temperature by month



Average flight price by month (Bangkok to Singapore, 4 days trip)



* Some missing data in September and October

Busy month: into the big events

