



# Rainfall in Singapore

Delivery App

# Problem Statement



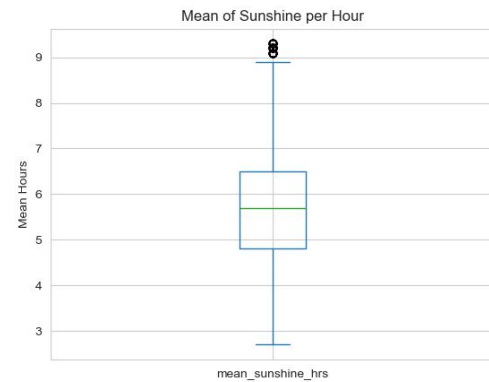
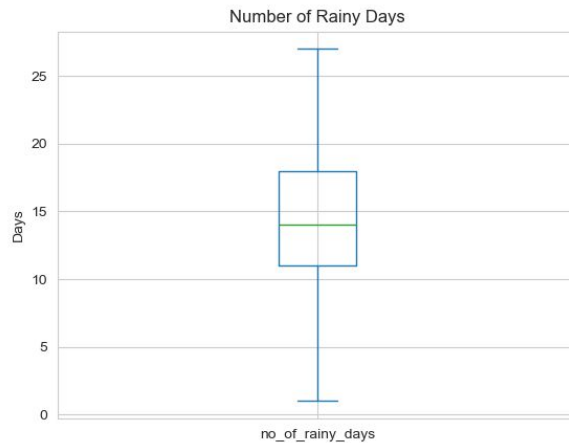
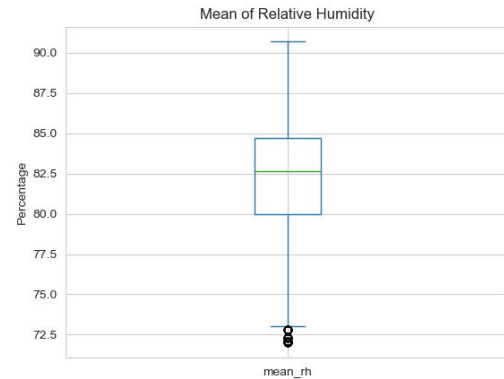
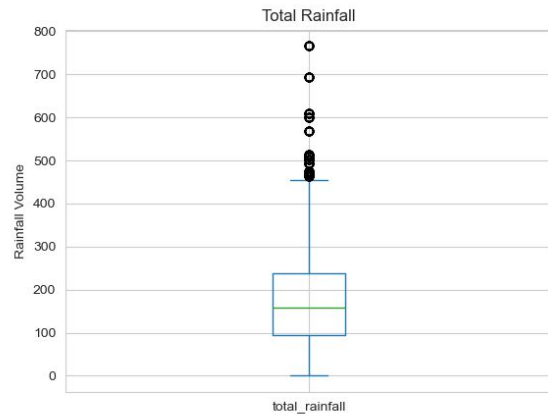
- Facing high demand of users when rainfall, lead to cancel from messengers (raiders)
- Rarely to find raiders to pick up food
- Food delivery app would like to increase food order amount and sales

# Key Findings

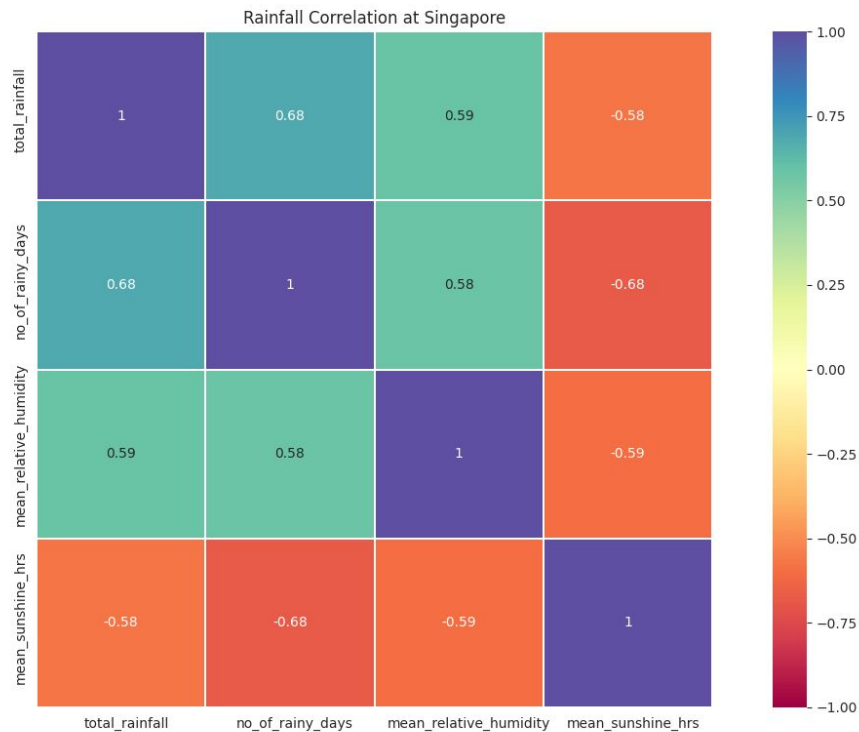


- Total Rainfall and Number of Rainy Days are correlation which can go in depth other metrics
- Outliers in boxplot in each metrics except number of rainy days
- Subplot need variable to show correlation
- Other Visualized
  - Line Chart
  - Bar Chart
  - Scatterplot

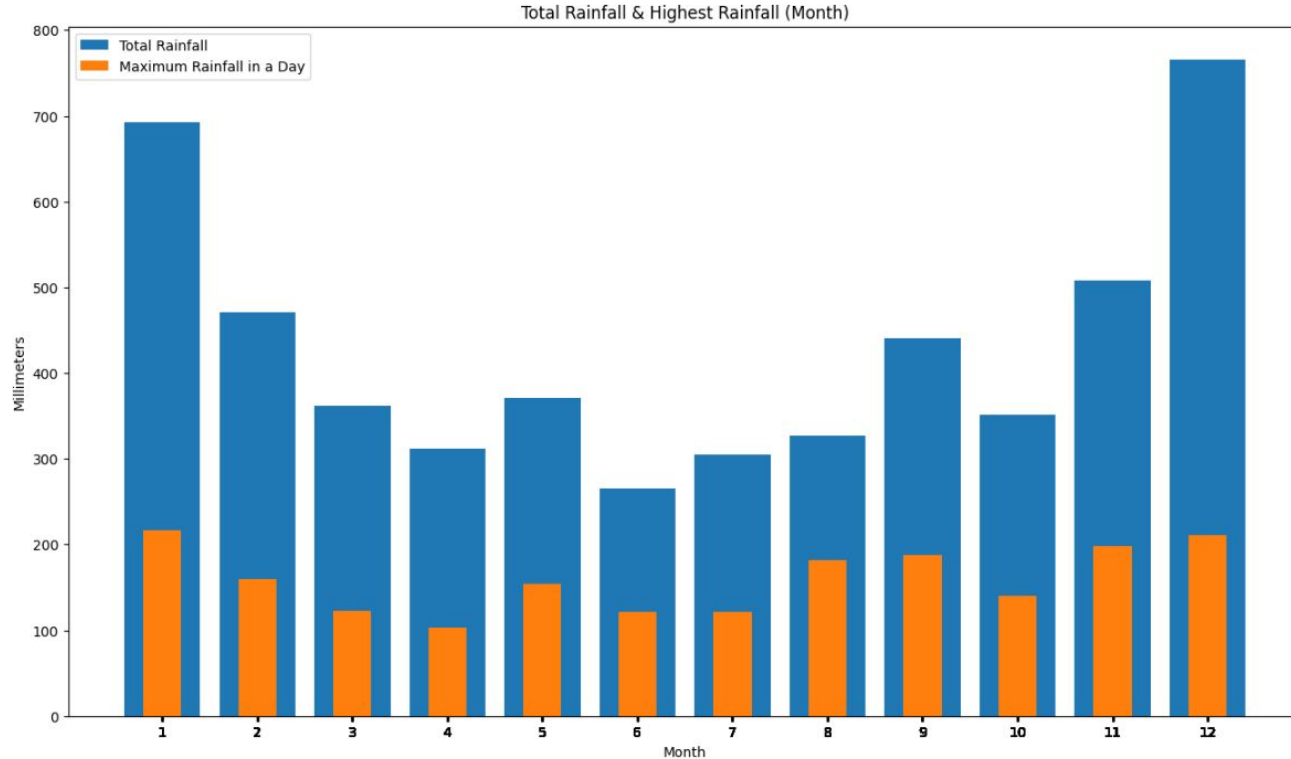
# Boxplot



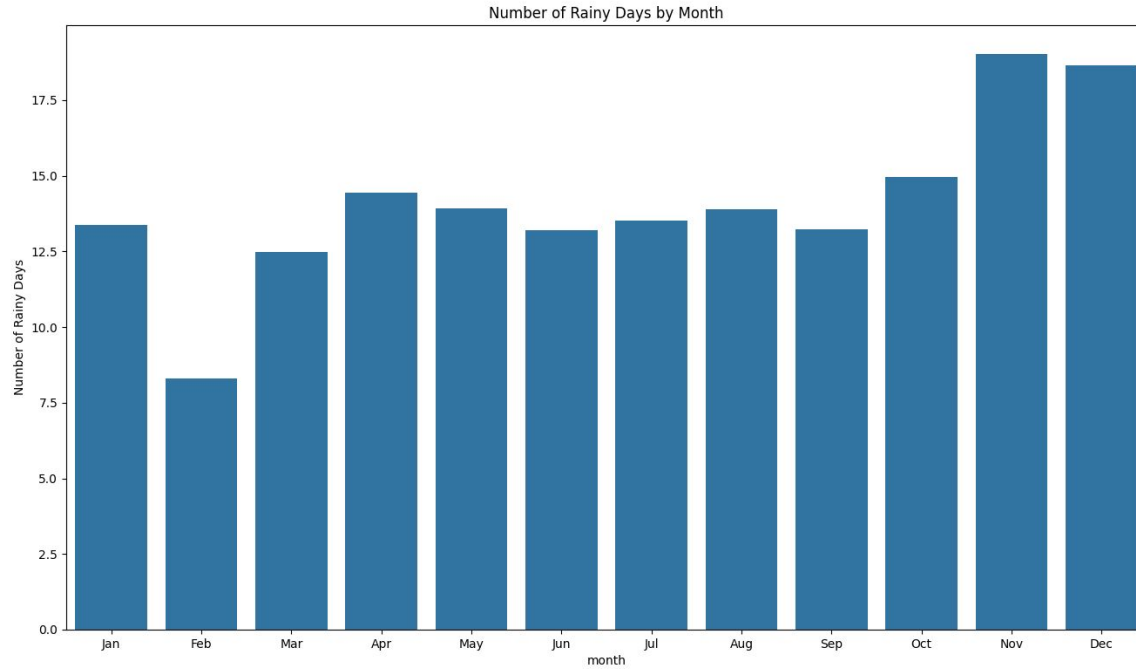
# Correlation



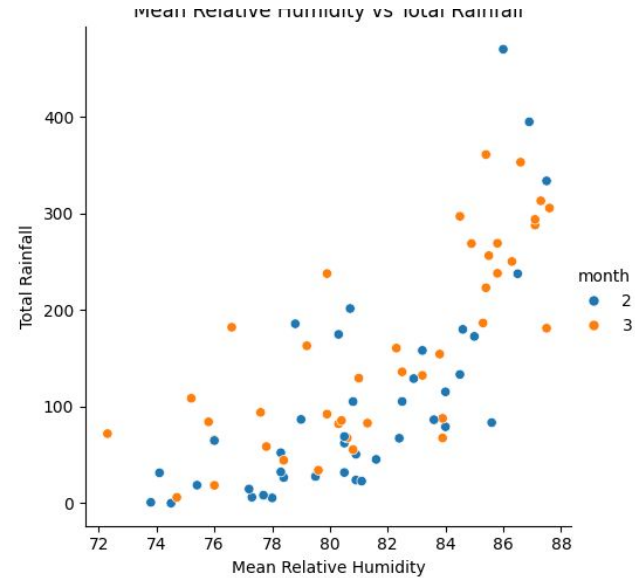
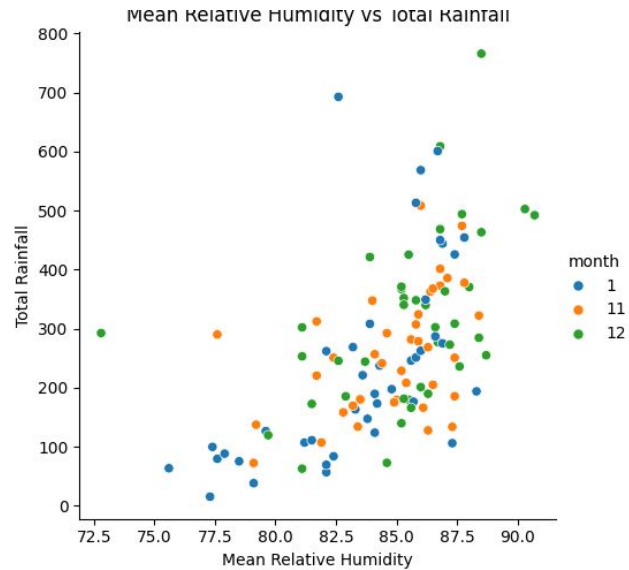
# Total Rainfall and number of rainy days by month



# Number of rainy days by month

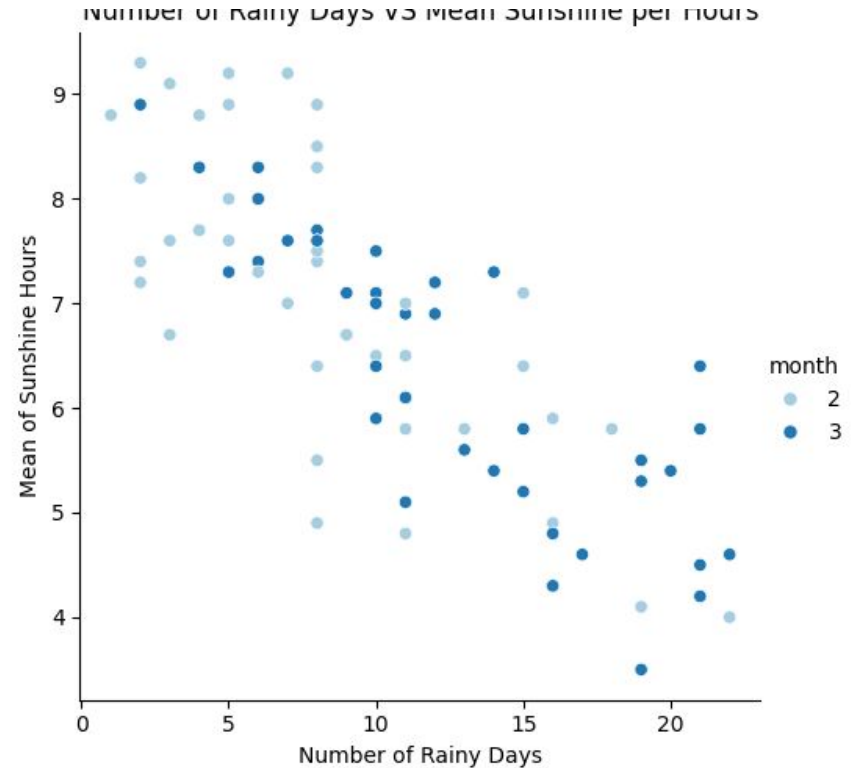
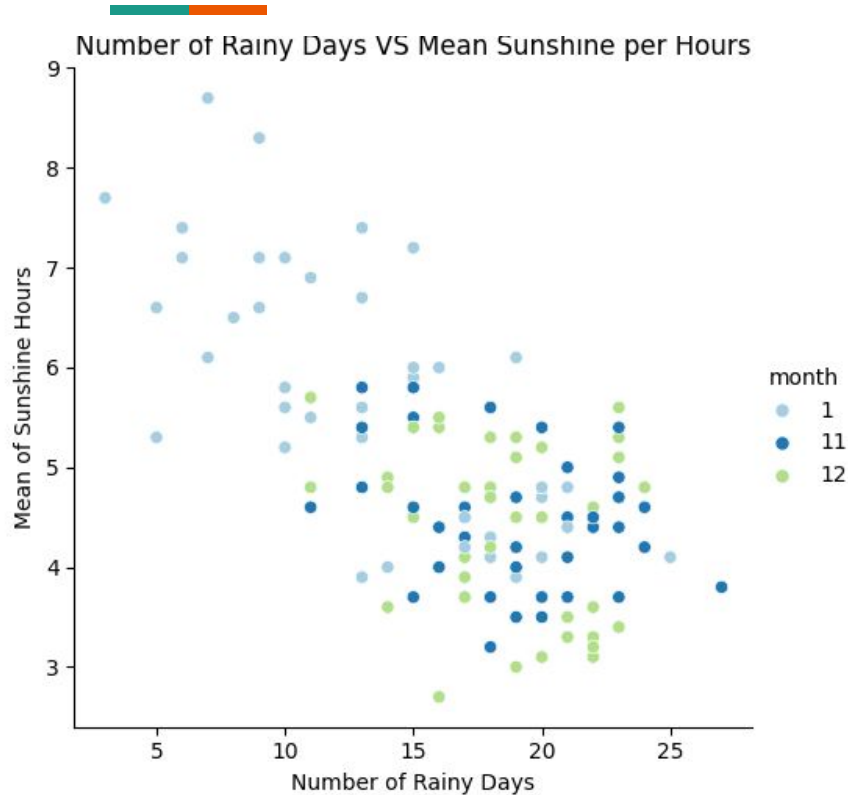


# Mean Relative Humidity with total rainfall (Highest, Lowest)

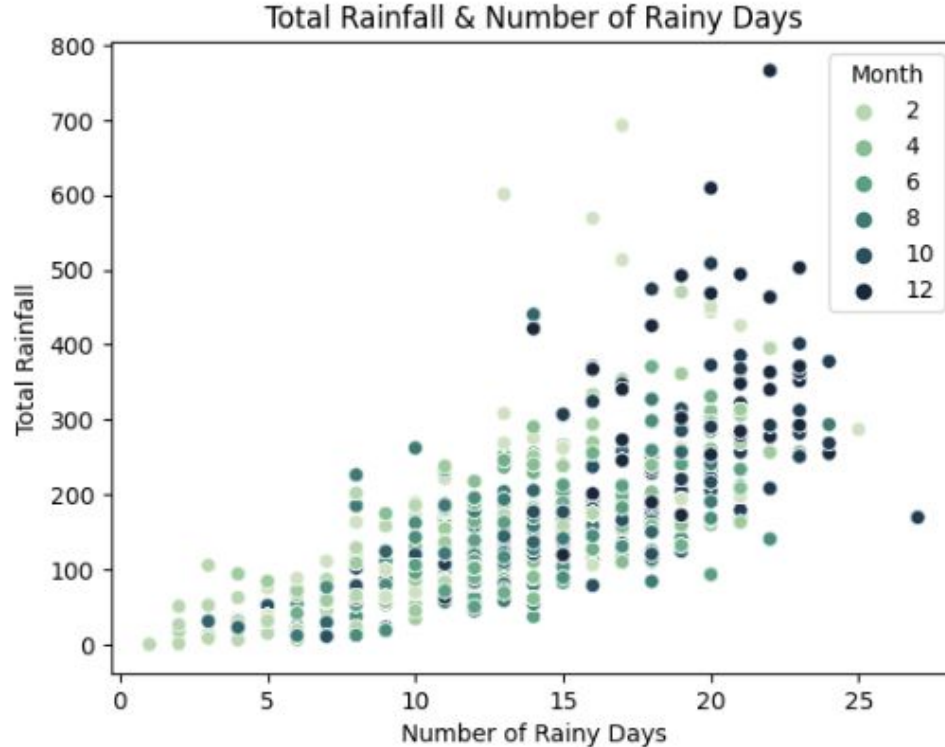




# Number of Rainy Days VS Mean Sunshine per Hours (Highest, Lowest)



# Total Rainfall and Number of Rainy Days



# Conclusion & Recommendations



## Conclusion

1. How to control high demand of users during rainfall
2. How to increase attention to work during rainfall for riders
3. Cancellation by riders and customers when they see their food is wet

## Recommendations

1. Provide rainy gears to raiders
2. Set up weather notification onward 2 hours which applied with the data given
3. Pay extra wage / any welfare as reward for riders who attend rainy period which can motivate them to work
4. Allocate resources, for example, contact EV mini cars and EV bikes merchandise to deal partners and make contract to raiders who are willing to drive