

The background of the slide is a light gray gradient, decorated with numerous realistic water droplets of various sizes. Some droplets are large and prominent, while others are small and subtle, scattered across the top and bottom edges of the frame.

INSIGHTS FROM AIRBNB, NYC PRE COVID PERIOD

**FOR HEAD OF ACQUISITION & OPERATIONS AND HEAD
OF USER EXPERIENCE**

AGENDA

- OBJECTIVE
- BACKGROUND
- KEY FINDINGS
- APPENDIX:
 - DATA SOURCE
 - DATA METHODOLOGY

OBJECTIVE

- IMPROVE OUR SHARED UNDERSTANDING ABOUT THE MARKET CONDITION OF AIRBNB COMMUNITY
- IMPROVE OUR SHARED UNDERSTANDING ABOUT OUR END CONSUMER EXPERIENCE AND PREFERENCES
- PROVIDE EARLY RECOMMENDATIONS TO HEAD OF ACQUISITION & OPERATIONS AND HEAD OF USER EXPERIENCE

BACKGROUND

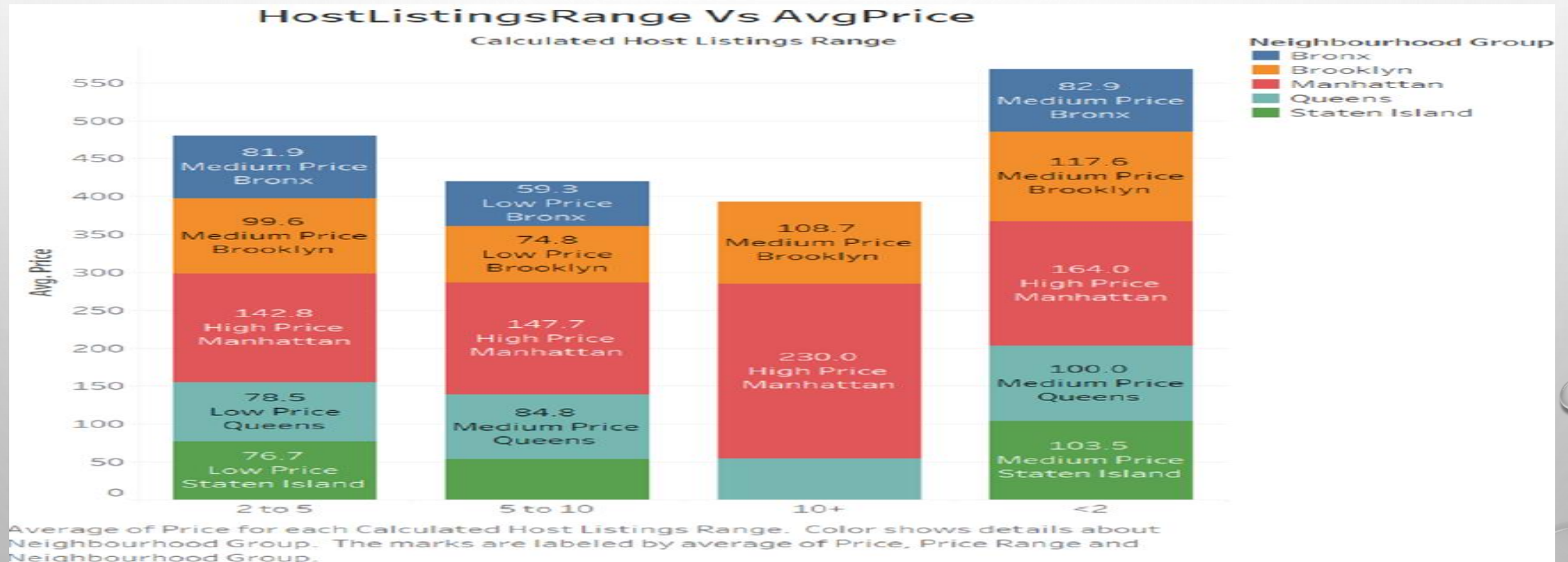
- FOR THE PAST FEW MONTHS, AIRBNB HAS SEEN A MAJOR DECLINE IN REVENUE
- DUE TO COVID RESTRICTIONS TRAVEL WAS LIMITED
- RESTRICTIONS HAVE STARTED LIFTING AND PEOPLE HAVE STARTED TO TRAVEL MORE AND THUS A THOROUGH ANALYSIS WAS NEEDED TO BE READY TO MITIGATE REVENUE LOSS

TOP CAUSE OF DECLINING REVENUE

- PROPERTIES ARE NOT FUNCTIONAL THROUGH OUT THE YEAR AND THUS CONTRIBUTE LEAST IN TERMS OF REVENUE
- PROPERTIES DO NOT ALLOW A MAXIMUM NUMBER OF MINIMUM NIGHT STAY BOOKING
- MAJORITY OF THE CUSTOMERS PREFER A PRICE RANGE OF 120\$ TO 130\$ ON AVERAGE FOR A STAY WHEREAS THE MOST TRACTION GENERATING NEIGHBORHOODS I.E. MANHATTAN AND BROOKLYN OFFERS A HIGHER PRICE RANGE

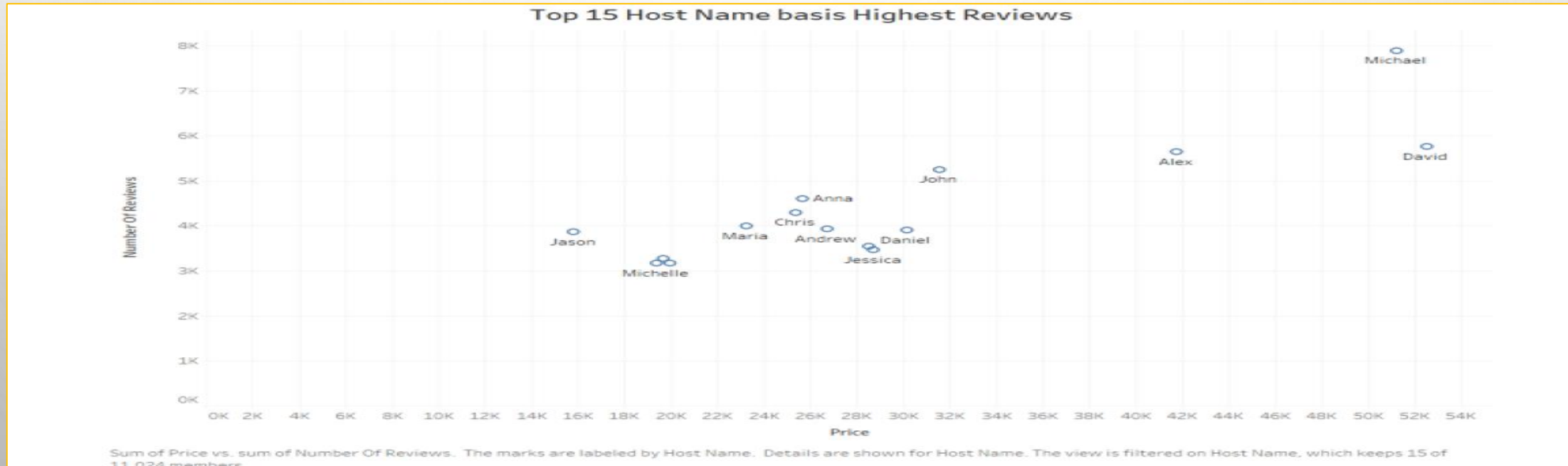
NUMBER OF PLACES HOSTED BY A SINGLE HOST BASED ON THEIR AVG PRICE AND NEIGHBORHOOD

MANHATTAN IS THE ONLY NEIGHBORHOOD IN THE BOROUGH THAT LIES IN OFFERING THE HIGHEST PRICE RANGE PROPERTIES ON THE PLATFORM FOLLOWED BY OTHERS WITH A MEDIUM PRICE RANGE ON AVERAGE. PRICES OFFERED ABOVE 120\$ ON AVERAGE ARE HIGH PRICED, BETWEEN 80\$ TO 120\$, MEDIUM PRICE RANGE AND LESS THAN 80\$ TO BE CONSIDERED LOW PRICE RANGE PROPERTY



NAME OF THE HOST WHO HAVE RECEIVED HIGHEST NUMBER OF REVIEWS

- MICHAEL, DAVID, ALEX, JOHN AND ANNA ARE THE TOP 5 HOSTS THAT SEEM TO HAVE RECEIVED THE HIGHEST NUMBER OF REVIEWS FOR THEIR LISTED SITES
- THEY HAVE ALSO SITES LISTED WITH HIGH PRICE RANGE
- REMAINING 15 HOST HAD AVERAGE NUMBER OF REVIEW AND PRICE RANGE IS ALSO AVERAGE



APPENDIX – DATA SOURCE

- WE CAN ASSUME THAT THE COMPANY USED THE INTERNAL TOOL SUCH AS CRM TO CAPTURE THE DATA
- HERE IS A SNAPSHOT OF OUR DATA DICTIONARY

| Column | Description |
|--------------------------------|--|
| id | listing ID |
| name | name of the listing |
| host_id | host ID |
| host_name | name of the host |
| neighbourhood_group | location |
| neighbourhood | area |
| latitude | latitude coordinates |
| longitude | longitude coordinates |
| room_type | listing space type |
| price | |
| minimum_nights | amount of nights minimum |
| number_of_reviews | number of reviews |
| last_review | latest review |
| reviews_per_month | number of reviews per month |
| calculated_host_listings_count | amount of listing per host |
| availability_365 | number of days when listing is available for booking |

APPENDIX – DATA METHODOLOGY

- DATA UNDERSTANDING, PREPARATION, AND PRE-PROCESSING :
 - READING DATA
 - ASSIGNING CORRECT DATATYPES
 - TREATING MISSING VALUES
 - TREATING OUTLIER
- VARIABLE TRANSFORMATION :
 - VARIABLE TRANSFORMATION AND APPLYING CATEGORICAL VARIABLE TRANSFORMATIONS TO TURN INTO NUMERICAL DATA AND NUMERICAL VARIABLE TRANSFORMATIONS TO SCALE DATA
- EXPLORATORY DATA ANALYSIS :
 - UNIVARIATE ANALYSIS(NUMERICAL AND CATEGORICAL) IN PYTHON
 - BIVARIATE AND MULTIVARIATE ANALYSIS IN EXCEL AND TABLEAU

The background is a light gray gradient. It is decorated with several realistic water droplets of various sizes, some at the top and some at the bottom. In the upper center, there is a faint, circular logo or watermark that appears to be a university crest.

TEAM CONTRIBUTION

ADITYA VIKRAM

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THANK YOU !!!