## **Hotel Reviews**

## LA - 1 Exploratory Data Analysis

Submitted By:- Shivee Jaiswal, 1NT21IS152, 5 C

## Introduction

The Hotel Reviews dataset is a collection of customer reviews and feedback about various hotels, providing valuable insights into the hospitality industry. Typically sourced from online review platforms or booking websites, this dataset encompasses a diverse range of hotels worldwide. Each review entry includes details such as the hotel's name, location, user ratings, and textual feedback from guests. Analyzing this dataset can offer profound insights into customer preferences, satisfaction levels, and specific aspects of hotels that influence their experiences. Researchers and businesses can leverage sentiment analysis and natural language processing techniques to extract sentiments expressed in these reviews, enabling them to understand trends, identify areas for improvement, and enhance overall customer satisfaction in the hotel industry. The Hotel Reviews dataset is a valuable resource for researchers, data scientists, and industry professionals aiming to gain a deeper understanding of customer opinions and preferences in the realm of hospitality.

```
# Load the Dataset
data <- read.csv("C:\\Users\\Shatakshi\\Desktop\\Datafiniti_Hotel_Reviews.csv")
# Data Summary
summary(data)</pre>
```

```
##
         id
                        dateAdded
                                           dateUpdated
                                                                 address
    Length: 10000
##
                       Length: 10000
                                           Length:10000
                                                              Length:10000
##
    Class :character
                       Class :character
                                           Class :character
                                                              Class :character
    Mode :character
                       Mode :character
                                           Mode :character
                                                              Mode :character
##
##
##
##
##
     categories
                       primaryCategories
                                               city
                                                                 country
##
    Length: 10000
                       Length:10000
                                           Length:10000
                                                              Length: 10000
##
    Class :character
                       Class :character
                                           Class :character
                                                              Class :character
    Mode :character
                       Mode :character
                                           Mode :character
                                                              Mode :character
##
##
##
##
##
                          latitude
                                          longitude
        keys
                                                              name
                                               :-159.47
##
    Length:10000
                       Min.
                               :19.44
                                        Min.
                                                          Length:10000
    Class :character
                       1st Qu.:33.93
                                        1st Qu.:-111.62
                                                          Class :character
##
                                        Median : -84.45
    Mode :character
                       Median :37.79
                                                          Mode :character
##
##
                              :37.00
                                              : -92.68
                       Mean
                                        Mean
##
                       3rd Qu.:40.42
                                        3rd Qu.: -77.05
##
                       Max.
                               :70.13
                                        Max.
                                               : -68.20
##
     postalCode
                         province
                                           reviews.date
                                                              reviews.dateSeen
##
    Length: 10000
                       Length:10000
                                           Length:10000
                                                              Length:10000
##
    Class :character
                       Class :character
                                           Class :character
                                                              Class :character
    Mode :character
                       Mode :character
##
                                           Mode :character
                                                              Mode :character
##
##
##
    reviews.rating reviews.sourceURLs reviews.text
                                                           reviews.title
##
           :1.000
                    Length:10000
                                        Length:10000
                                                           Length: 10000
##
    Min.
##
    1st Qu.:3.350
                    Class :character
                                        Class :character
                                                           Class :character
##
    Median :4.000
                    Mode :character
                                        Mode :character
                                                           Mode :character
##
    Mean
           :4.034
##
    3rd Qu.:5.000
##
    Max.
           :5.000
                       reviews.userProvince reviews.username
##
    reviews.userCity
                                                                  sourceURLs
    Length: 10000
                       Length:10000
                                             Length: 10000
                                                                 Length:10000
##
                       Class :character
##
    Class :character
                                             Class :character
                                                                 Class :character
    Mode :character
                       Mode :character
                                                                Mode :character
                                             Mode :character
##
##
##
##
##
      websites
   Length:10000
##
    Class :character
##
    Mode :character
##
##
##
##
```

```
# Gives the structure
str(data)
```

```
## 'data.frame':
                   10000 obs. of 25 variables:
                         : chr "AVwc252WIN2L1WUfpqLP" "AVwc252WIN2L1WUfpqLP" "AVwc252WIN2L1
## $ id
WUfpqLP" "AVwdOclqIN2L1WUfti38" ...
## $ dateAdded
                         : chr "2016-10-30T21:42:42Z" "2016-10-30T21:42:42Z" "2016-10-30T2
1:42:427" "2015-11-28T19:19:35Z" ...
## $ dateUpdated
                         : chr "2018-09-10T21:06:27Z" "2018-09-10T21:06:27Z" "2018-09-10T2
1:06:27Z" "2018-09-10T21:06:16Z" ...
                         : chr "5921 Valencia Cir" "5921 Valencia Cir" "5921 Valencia Cir"
## $ address
"7520 Teague Rd" ...
## $ categories
                         : chr "Hotels, Hotels and motels, Hotel and motel reservations, Resor
ts,Resort,Hotel" "Hotels,Hotels and motels,Hotel and motel reservations,Resort,Resort,Hotel"
"Hotels, Hotels and motels, Hotel and motel reservations, Resorts, Resort, Hotel" "Hotels, Hotels a
nd motels, Travel agencies and bureaus, Hotel and Motel Management, Hotel & Motel Management, Mot
els, Hotel" ...
## $ primaryCategories : chr "Accommodation & Food Services" "Accommodation & Food Services"
es" "Accommodation & Food Services" "Accommodation & Food Services" ...
## $ city
                         : chr "Rancho Santa Fe" "Rancho Santa Fe" "Hanov
er" ...
                         : chr "US" "US" "US" "US" ...
## $ country
## $ keys
                         : chr "us/ca/ranchosantafe/5921valenciacir/359754519" "us/ca/ranch
osantafe/5921valenciacir/359754519" "us/ca/ranchosantafe/5921valenciacir/359754519" "us/md/ha
nover/7520teaguerd/-2043779672" ...
## $ latitude
                         : num 33 33 39.2 39.2 ...
## $ longitude
                         : num -117.2 -117.2 -76.7 -76.7 ...
## $ name
                         : chr "Rancho Valencia Resort Spa" "Rancho Valencia Resort Spa" "R
ancho Valencia Resort Spa" "Aloft Arundel Mills" ...
## $ postalCode
                        : chr "92067" "92067" "92067" "21076" ...
                         : chr "CA" "CA" "CA" "MD" ...
## $ province
                         : chr "2013-11-14T00:00:00Z" "2014-07-06T00:00:00Z" "2015-01-02T0
## $ reviews.date
0:00:00Z" "2016-05-15T00:00:00Z" ...
## $ reviews.dateSeen
                         : chr "2016-08-03T00:00:00Z,2016-07-26T00:00:00Z,2016-08-02T00:00:
00Z,2016-07-17T00:00:00Z,2016-08-27T00:00:00Z,2016-0" truncated "2016-08-02T00:00:00Z,20
16-08-26T00:00:002,2016-08-03T00:002,2016-07-17T00:00:002,2016-08-09T00:00:002,2016-0"
truncated "2016-11-15T00:00:00Z,2016-08-23T00:00:00Z,2016-08-27T00:00:00Z,2016-07-26T00:00:
00Z,2016-08-02T00:00:00Z,2016-0"| __truncated__ "2016-05-21T00:00:00Z,2016-07-31T00:00:00Z"
                         : num 5555255555...
## $ reviews.rating
## $ reviews.sourceURLs : chr "https://www.hotels.com/hotel/125419/reviews%20/" "https://w
ww.hotels.com/hotel/125419/reviews%20/" "https://www.hotels.com/hotel/125419/reviews%20/" "ht
tps://www.tripadvisor.com/Hotel_Review-g41185-d1239660-Reviews-Aloft_Arundel_Mills-Hanover_Ma
ryland.html,http"| __truncated__ ...
                         : chr "Our experience at Rancho Valencia was absolutely perfect fr
## $ reviews.text
om beginning to end!!!! We felt special and very hap" | __truncated__ "Amazing place. Everyone
was extremely warm and welcoming. We've stayed at some top notch places and this is def" | t
runcated__ "We booked a 3 night stay at Rancho Valencia to play some tennis, since it is one
of the highest rated tennis re" | __truncated__ "Currently in bed writing this for the past hr
1/2 there have been dogs barking and squealing call the front des" | __truncated__ ...
## $ reviews.title
                         : chr "Best romantic vacation ever!!!!" "Sweet sweet serenity" "Am
azing Property and Experience" "Never again...beware, if you want sleep." ...
                       : chr "" "" "Richmond" ...
## $ reviews.userCity
## $ reviews.userProvince: chr "" "" "VA" ...
## $ reviews.username : chr "Paula" "D" "Ron" "jaeem2016" ...
## $ sourceURLs
                         : chr "http://www.hotels.com/ho125419/%25252525253Flocale%2525252
253Den_US%25252525252525252525252525DHCOM_US,http:/"| __truncated__ "http://www.hotels.com/h
o125419/%252525253Flocale%25252525253Den_US%2525252526pos%25252525253DHCOM_US,http:/"
```

```
#To find missing values
any(is.na(data))
```

```
## [1] FALSE
```

# Retrieves the names of all the columns present in the dataset names(data)

```
## [1] "id"
                               "dateAdded"
                                                       "dateUpdated"
## [4] "address"
                               "categories"
                                                      "primaryCategories"
## [7] "city"
                               "country"
                                                       "keys"
                               "longitude"
## [10] "latitude"
                                                      "name"
## [13] "postalCode"
                               "province"
                                                       "reviews.date"
## [16] "reviews.dateSeen"
                               "reviews.rating"
                                                      "reviews.sourceURLs"
## [19] "reviews.text"
                               "reviews.title"
                                                      "reviews.userCity"
## [22] "reviews.userProvince" "reviews.username"
                                                      "sourceURLs"
## [25] "websites"
```

```
# Outputs the initial rows of the dataset
head(data)
```

```
##
                                     dateAdded
                       id
                                                         dateUpdated
## 1 AVwc252WIN2L1WUfpqLP 2016-10-30T21:42:42Z 2018-09-10T21:06:27Z
## 2 AVwc252WIN2L1WUfpqLP 2016-10-30T21:42:42Z 2018-09-10T21:06:27Z
## 3 AVwc252WIN2L1WUfpqLP 2016-10-30T21:42:42Z 2018-09-10T21:06:27Z
## 4 AVwdOclqIN2L1WUfti38 2015-11-28T19:19:35Z 2018-09-10T21:06:16Z
## 5 AVwdOclqIN2L1WUfti38 2015-11-28T19:19:35Z 2018-09-10T21:06:16Z
## 6 AVwdOclqIN2L1WUfti38 2015-11-28T19:19:35Z 2018-09-10T21:06:16Z
##
               address
## 1 5921 Valencia Cir
## 2 5921 Valencia Cir
## 3 5921 Valencia Cir
## 4
        7520 Teague Rd
## 5
        7520 Teague Rd
## 6
        7520 Teague Rd
##
categories
                                                 Hotels, Hotels and motels, Hotel and motel rese
## 1
rvations, Resorts, Resort, Hotel
## 2
                                                 Hotels, Hotels and motels, Hotel and motel rese
rvations, Resorts, Resort, Hotel
## 3
                                                 Hotels, Hotels and motels, Hotel and motel rese
rvations, Resorts, Resort, Hotel
## 4 Hotels, Hotels and motels, Travel agencies and bureaus, Hotel and Motel Management, Hotel &
Motel Management, Motels, Hotel
## 5 Hotels, Hotels and motels, Travel agencies and bureaus, Hotel and Motel Management, Hotel &
Motel Management, Motels, Hotel
## 6 Hotels, Hotels and motels, Travel agencies and bureaus, Hotel and Motel Management, Hotel &
Motel Management, Motels, Hotel
##
                 primaryCategories
                                               city country
## 1 Accommodation & Food Services Rancho Santa Fe
                                                         US
## 2 Accommodation & Food Services Rancho Santa Fe
                                                         US
## 3 Accommodation & Food Services Rancho Santa Fe
                                                         US
## 4 Accommodation & Food Services
                                                         US
                                            Hanover
## 5 Accommodation & Food Services
                                            Hanover
                                                         US
## 6 Accommodation & Food Services
                                            Hanover
                                                         US
##
                                               keys latitude
## 1 us/ca/ranchosantafe/5921valenciacir/359754519 32.99096 -117.18614
## 2 us/ca/ranchosantafe/5921valenciacir/359754519 32.99096 -117.18614
## 3 us/ca/ranchosantafe/5921valenciacir/359754519 32.99096 -117.18614
## 4
            us/md/hanover/7520teaguerd/-2043779672 39.15593 -76.71634
## 5
            us/md/hanover/7520teaguerd/-2043779672 39.15593 -76.71634
## 6
            us/md/hanover/7520teaguerd/-2043779672 39.15593 -76.71634
##
                           name postalCode province
                                                             reviews.date
## 1 Rancho Valencia Resort Spa
                                                  CA 2013-11-14T00:00:00Z
                                     92067
## 2 Rancho Valencia Resort Spa
                                                  CA 2014-07-06T00:00:00Z
                                     92067
## 3 Rancho Valencia Resort Spa
                                     92067
                                                  CA 2015-01-02T00:00:00Z
## 4
            Aloft Arundel Mills
                                     21076
                                                  MD 2016-05-15T00:00:00Z
## 5
            Aloft Arundel Mills
                                     21076
                                                  MD 2016-07-09T00:00:00Z
            Aloft Arundel Mills
                                     21076
                                                  MD 2016-06-11T00:00:00Z
## 6
##
reviews.dateSeen
## 1 2016-08-03T00:00:00Z,2016-07-26T00:00:00Z,2016-08-02T00:00Z,2016-07-17T00:00:00Z,2016
-08-27700:00:002,2016-08-23700:00:002,2016-08-09700:00:002,2016-11-07700:00:002,2016-08-2670
0:00:00Z
## 2 2016-08-02T00:00:00Z,2016-08-26T00:00:00Z,2016-08-03T00:00Z,2016-07-17T00:00:00Z,2016
```

```
-08-09T00:00:00Z,2016-08-23T00:00:00Z,2016-08-27T00:00:00Z,2016-11-15T00:00:00Z,2016-07-26T0
0:00:00Z
## 3 2016-11-15T00:00:00Z,2016-08-23T00:00Z,2016-08-27T00:00Z,2016-07-26T00:00:00Z,2016
-08-02T00:00:00Z,2016-07-17T00:00:00Z,2016-08-03T00:00:00Z,2016-08-09T00:00:00Z,2016-08-26T0
0:00:00Z
## 4
2016-05-21T00:00:00Z,2016-07-31T00:00:00Z
2016-07-31T00:00:00Z
## 6
2016-07-31T00:00:00Z
    reviews.rating
## 1
## 2
                  5
## 3
                  5
## 4
                  2
                  5
## 5
## 6
                  5
##
reviews.sourceURLs
## 1
https://www.hotels.com/hotel/125419/reviews%20/
## 2
https://www.hotels.com/hotel/125419/reviews%20/
## 3
https://www.hotels.com/hotel/125419/reviews%20/
## 4 https://www.tripadvisor.com/Hotel_Review-g41185-d1239660-Reviews-Aloft_Arundel_Mills-Han
over_Maryland.html,https://www.tripadvisor.com/Hotel_Review-g41185-d1239660-Reviews-or40-Alof
t_Arundel_Mills-Hanover_Maryland.html%25252523REVIEWS
## 5
https://www.tripadvisor.com/Hotel_Review-g41185-d1239660-Reviews-or10-Aloft_Arundel_Mills-Han
over_Maryland.html%2525252523REVIEWS
## 6
https://www.tripadvisor.com/Hotel_Review-g41185-d1239660-Reviews-or20-Aloft_Arundel_Mills-Han
over Maryland.html%2525252523REVIEWS
##
reviews.text
Our experience at Rancho Valencia was absolutely perfect from beginning to end!!!! We felt sp
ecial and very happy during our stayed. I would come back in a heart beat!!!
## 2
Amazing place. Everyone was extremely warm and welcoming. We've stayed at some top notch plac
es and this is definitely in our top 2. Great for a romantic getaway or take the kids along a
s we did. Had a couple stuffed animals waiting for our girls upon arrival. Can't wait to go b
ack.
## 3 We booked a 3 night stay at Rancho Valencia to play some tennis, since it is one of the
highest rated tennis resorts in America. This place is really over the top from a luxury stan
dpoint and overall experience. The villas are really perfect, the staff is great, attention t
o details (includes fresh squeezed orange juice each morning), restaurants, bar and room serv
```

## 4

here again.

Currently in bed writing this for the past hr 1/2 there have been dogs barking and squealing call the front desk to advise basically to be told there's nothing they can do. 315.00 and I can't sleep.

ice amazing, and the tennis program was really impressive as well. We will want to come back

```
reat ! Especially Olivia who was Extra special because she remembered me by my voice over the
phone ....which tells me she is very alert and pays attention to the customer their needs.AND
SHE DID! Thumbs up... More
## 6
I stayed here with my family for my daughters wedding. It had a very accommodating staff, Oli
via was excellent. The rooms were very well maintained. Would highly recommend this hotel, es
pecially if your wedding venue is Celebrations at the Bay!
##
                                reviews.title reviews.userCity
## 1
              Best romantic vacation ever!!!!
## 2
                         Sweet sweet serenity
              Amazing Property and Experience
## 3
## 4 Never again...beware, if you want sleep.
                                                      Richmond
## 5
                         ALWAYS GREAT STAY...
                                                        Laurel
## 6
                               Wonderful stay
                                                        Laurel
##
     reviews.userProvince reviews.username
## 1
## 2
                                         D
## 3
                                       Ron
## 4
                       VA
                                 jaeem2016
## 5
                       MD
                                MamaNiaOne
## 6
                       MD
                                  kevan777
##
sourceURLs
## 1
                                                                              http://www.hotel
s.com/ho125419/%25252525253Flocale%25252525253Den US%252525252526pos%25252525253DHCOM US,htt
p://www.yellowbook.com/profile/rancho-valencia-resort-and-spa_1895174051.html,https://www.hot
els.com/hotel/125419/reviews%20/,https://foursquare.com/v/rancho-valencia-resort--spa/4aaedb7
9f964a5208f6320e3, http://www.gayot.com/Hotels/Select-Your-City/United-States/California/San-D
iego/Rancho-Valencia-Resort-Spa-Rancho-Santa-Fe-SDHOT02319-02
## 2
                                                                              http://www.hotel
s.com/ho125419/%25252525253Flocale%25252525253Den US%252525252526pos%25252525253DHCOM US,htt
p://www.yellowbook.com/profile/rancho-valencia-resort-and-spa_1895174051.html,https://www.hot
els.com/hotel/125419/reviews%20/,https://foursquare.com/v/rancho-valencia-resort--spa/4aaedb7
9f964a5208f6320e3, http://www.gayot.com/Hotels/Select-Your-City/United-States/California/San-D
iego/Rancho-Valencia-Resort-Spa-Rancho-Santa-Fe-SDHOT02319-02
## 3
                                                                              http://www.hotel
s.com/ho125419/%25252525253Flocale%25252525253Den US%25252525256pos%25252525253DHCOM US,htt
p://www.yellowbook.com/profile/rancho-valencia-resort-and-spa_1895174051.html,https://www.hot
els.com/hotel/125419/reviews%20/,https://foursquare.com/v/rancho-valencia-resort--spa/4aaedb7
9f964a5208f6320e3, http://www.gayot.com/Hotels/Select-Your-City/United-States/California/San-D
iego/Rancho-Valencia-Resort-Spa-Rancho-Santa-Fe-SDHOT02319-02
## 4 http://www.yellowbook.com/profile/aloft-arundel-mills 1896561264.html,https://www.yellow
pages.com/hanover-md/mip/aloft-arundel-mills-458499145, https://www.hotels.com/hotel/309972/re
views%20/,http://www.yellowpages.com/hanover-md/mip/arundel-mills-hotel-partners-471898728,ht
tps://www.tripadvisor.com/Hotel_Review-g41185-d1239660-Reviews-Aloft_Arundel_Mills-Hanover_Ma
ryland.html,https://foursquare.com/v/aloft-arundel-mills/4b82b437f964a5206edf30e3,http://www.
yellowpages.com/hanover-md/mip/aloft-arundel-mills-458499145
## 5 http://www.yellowbook.com/profile/aloft-arundel-mills_1896561264.html,https://www.yellow
pages.com/hanover-md/mip/aloft-arundel-mills-458499145, https://www.hotels.com/hotel/309972/re
views%20/,http://www.yellowpages.com/hanover-md/mip/arundel-mills-hotel-partners-471898728,ht
tps://www.tripadvisor.com/Hotel_Review-g41185-d1239660-Reviews-Aloft_Arundel_Mills-Hanover_Ma
ryland.html,https://foursquare.com/v/aloft-arundel-mills/4b82b437f964a5206edf30e3,http://www.
yellowpages.com/hanover-md/mip/aloft-arundel-mills-458499145
## 6 http://www.yellowbook.com/profile/aloft-arundel-mills_1896561264.html,https://www.yellow
pages.com/hanover-md/mip/aloft-arundel-mills-458499145, https://www.hotels.com/hotel/309972/re
```

I live in Md and the Aloft is my Home away from home...we stayed 1 night 7-7-16 ... Staff is g

```
views%20/,http://www.yellowpages.com/hanover-md/mip/arundel-mills-hotel-partners-471898728,ht
tps://www.tripadvisor.com/Hotel_Review-g41185-d1239660-Reviews-Aloft_Arundel_Mills-Hanover_Ma
ryland.html,https://foursquare.com/v/aloft-arundel-mills/4b82b437f964a5206edf30e3,http://www.
yellowpages.com/hanover-md/mip/aloft-arundel-mills-458499145
##
websites
## 1
http://www.ranchovalencia.com
http://www.ranchovalencia.com
## 3
http://www.ranchovalencia.com
## 4 http://www.starwoodhotels.com/alofthotels/property/overview/index.html?propertyID=3050?s
cid=45f93f1b-bd77-45c9-8dab-83b6a417f6fe,http://www.aloftarundelmills.com,https://www.marriot
t.com/hotels/travel/bwima-aloft-arundel-mills-bwi-airport/
## 5 http://www.starwoodhotels.com/alofthotels/property/overview/index.html?propertyID=3050?s
cid=45f93f1b-bd77-45c9-8dab-83b6a417f6fe,http://www.aloftarundelmills.com,https://www.marriot
t.com/hotels/travel/bwima-aloft-arundel-mills-bwi-airport/
## 6 http://www.starwoodhotels.com/alofthotels/property/overview/index.html?propertyID=3050?s
cid=45f93f1b-bd77-45c9-8dab-83b6a417f6fe,http://www.aloftarundelmills.com,https://www.marriot
t.com/hotels/travel/bwima-aloft-arundel-mills-bwi-airport/
# Outputs the summary of the dataset like max, min, Quartiles etc..
summary(data$latitude)
##
      Min. 1st Qu. Median
                              Mean 3rd Qu.
                                              Max.
     19.44
                     37.79
##
             33.93
                             37.00
                                     40.42
                                             70.13
# Outputs the standard deviation of the dataset
sd(data$longitude)
## [1] 19.34799
sum(is.na(data))
## [1] 0
 # for data manipulation
library(dplyr)
## Warning: package 'dplyr' was built under R version 4.3.2
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
##
       filter, lag
```

```
## The following objects are masked from 'package:base':
##
## intersect, setdiff, setequal, union

# visualizing interesting and interactive graphs
library(ggplot2)

## Warning: package 'ggplot2' was built under R version 4.3.2

#Calculate mean of a specific column
mean(data$latitude)

## [1] 37.00363

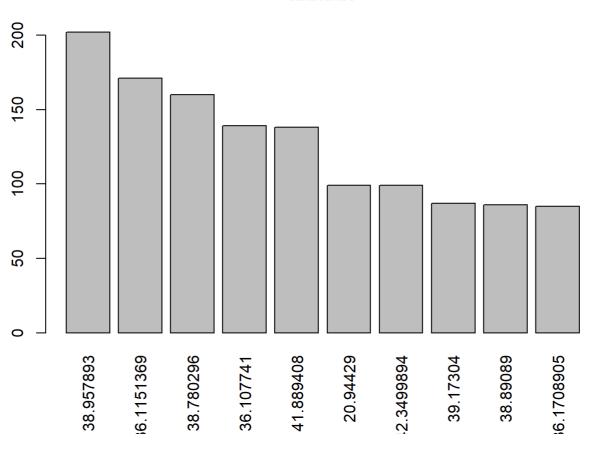
#checking data type of a column
class(data$latitude)

## [1] "numeric"

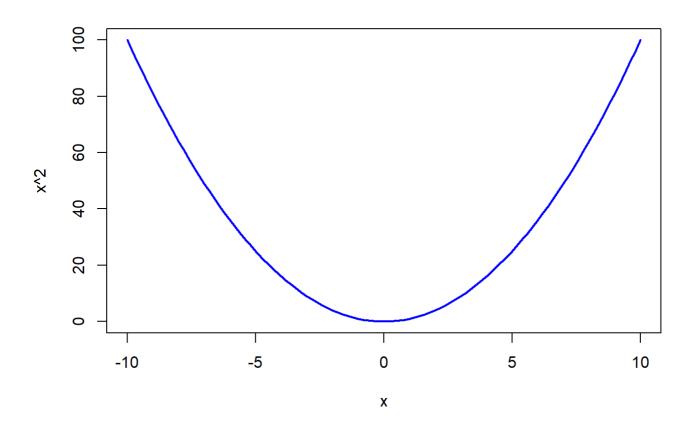
#Visualizing the Latitude
height<- sort(table(data$latitude), decreasing = TRUE)</pre>
```

#### latitude

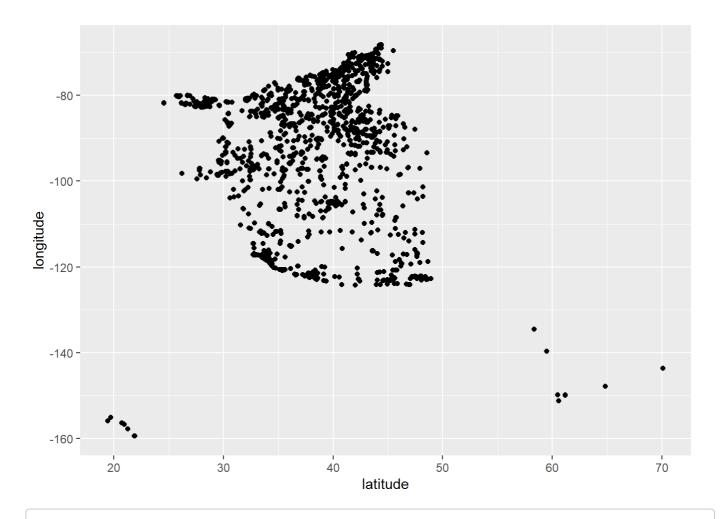
barplot(height[1:10], las = 3, main = "latitude")



```
# Plotting a Function Curve for the given dataset
curve(x^2, from = -10, to = 10, col = "blue", lwd = 2)
```



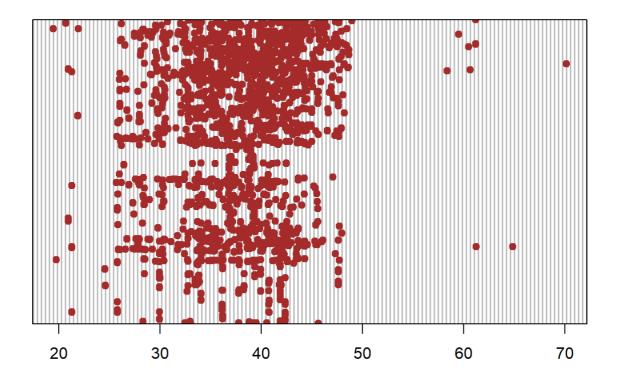
```
# Creating a Scatter Plot for latitude and longitude
library(ggplot2)
ggplot(data, aes(x = latitude, y = longitude)) + geom_point()
```

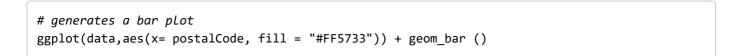


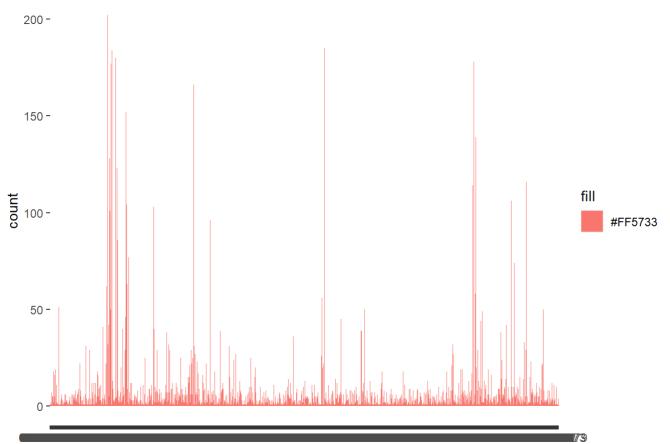
# Making a Dot Plot of Hotel Review

dotchart(data\$latitude, pch = 19, col = "brown", main = "Dot Plot")

### **Dot Plot**



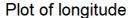


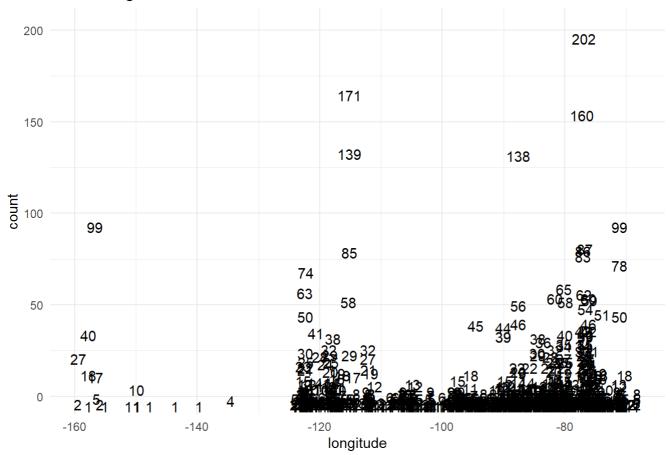


#View(tweets)
data[3:4,]

```
##
                                                                          dateAdded
                                               id
                                                                                                                 dateUpdated
## 3 AVwc252WIN2L1WUfpqLP 2016-10-30T21:42:42Z 2018-09-10T21:06:27Z
## 4 AVwdOclqIN2L1WUfti38 2015-11-28T19:19:35Z 2018-09-10T21:06:16Z
##
## 3 5921 Valencia Cir
                7520 Teague Rd
## 4
##
categories
## 3
                                                                                                 Hotels, Hotels and motels, Hotel and motel rese
rvations, Resorts, Resort, Hotel
## 4 Hotels, Hotels and motels, Travel agencies and bureaus, Hotel and Motel Management, Hotel &
Motel Management, Motels, Hotel
##
                                  primaryCategories
                                                                                             city country
## 3 Accommodation & Food Services Rancho Santa Fe
                                                                                                                 US
## 4 Accommodation & Food Services
                                                                                                                 US
                                                                                       Hanover
##
                                                                                             keys latitude longitude
## 3 us/ca/ranchosantafe/5921valenciacir/359754519 32.99096 -117.18614
                        us/md/hanover/7520teaguerd/-2043779672 39.15593 -76.71634
## 4
##
                                                       name postalCode province
                                                                                                                         reviews.date
## 3 Rancho Valencia Resort Spa
                                                                          92067
                                                                                                  CA 2015-01-02T00:00:00Z
## 4
                        Aloft Arundel Mills
                                                                          21076
                                                                                                  MD 2016-05-15T00:00:00Z
##
reviews.dateSeen
## 3 2016-11-15T00:00:00Z,2016-08-23T00:00:00Z,2016-08-27T00:00:00Z,2016-07-26T00:00:00Z,2016
-08-02 \\ \text{T00:00:} 002, \\ 2016-07-17 \\ \text{T00:00:} 002, \\ 2016-08-03 \\ \text{T00:00:} 002, \\ 2016-08-09 \\ \text{T00:00:} 002, \\ 20
0:00:00Z
## 4
2016-05-21T00:00:00Z,2016-07-31T00:00:00Z
##
          reviews.rating
## 3
                                    5
                                    2
## 4
##
reviews.sourceURLs
## 3
https://www.hotels.com/hotel/125419/reviews%20/
## 4 https://www.tripadvisor.com/Hotel_Review-g41185-d1239660-Reviews-Aloft_Arundel_Mills-Han
over Maryland.html,https://www.tripadvisor.com/Hotel Review-g41185-d1239660-Reviews-or40-Alof
t_Arundel_Mills-Hanover_Maryland.html%2525252523REVIEWS
##
reviews.text
## 3 We booked a 3 night stay at Rancho Valencia to play some tennis, since it is one of the
highest rated tennis resorts in America. This place is really over the top from a luxury stan
dpoint and overall experience. The villas are really perfect, the staff is great, attention t
o details (includes fresh squeezed orange juice each morning), restaurants, bar and room serv
ice amazing, and the tennis program was really impressive as well. We will want to come back
here again.
## 4
Currently in bed writing this for the past hr 1/2 there have been dogs barking and squealing
call the front desk to advise basically to be told there's nothing they can do. 315.00 and I
can't sleep.
##
                                                                reviews.title reviews.userCity
                            Amazing Property and Experience
## 3
## 4 Never again...beware, if you want sleep.
                                                                                                             Richmond
##
          reviews.userProvince reviews.username
## 3
                                                                               Ron
```

```
## 4
                       VA
                                 jaeem2016
##
sourceURLs
## 3
                                                                             http://www.hotel
s.com/ho125419/%25252525253Flocale%25252525253Den_US%252525252526pos%25252525253DHCOM_US,htt
p://www.yellowbook.com/profile/rancho-valencia-resort-and-spa 1895174051.html,https://www.hot
els.com/hotel/125419/reviews%20/,https://foursquare.com/v/rancho-valencia-resort--spa/4aaedb7
9f964a5208f6320e3,http://www.gayot.com/Hotels/Select-Your-City/United-States/California/San-D
iego/Rancho-Valencia-Resort-Spa-Rancho-Santa-Fe-SDHOT02319-02
## 4 http://www.yellowbook.com/profile/aloft-arundel-mills 1896561264.html,https://www.yellow
pages.com/hanover-md/mip/aloft-arundel-mills-458499145, https://www.hotels.com/hotel/309972/re
views%20/,http://www.yellowpages.com/hanover-md/mip/arundel-mills-hotel-partners-471898728,ht
tps://www.tripadvisor.com/Hotel Review-g41185-d1239660-Reviews-Aloft Arundel Mills-Hanover Ma
ryland.html,https://foursquare.com/v/aloft-arundel-mills/4b82b437f964a5206edf30e3,http://www.
yellowpages.com/hanover-md/mip/aloft-arundel-mills-458499145
##
websites
## 3
http://www.ranchovalencia.com
## 4 http://www.starwoodhotels.com/alofthotels/property/overview/index.html?propertyID=3050?s
cid=45f93f1b-bd77-45c9-8dab-83b6a417f6fe,http://www.aloftarundelmills.com,https://www.marriot
t.com/hotels/travel/bwima-aloft-arundel-mills-bwi-airport/
ggplot(data) + aes(longitude,fill= longitude) + geom_bar() +geom_text(stat='count', aes(label
=..count..), vjust=1.6, color="black") + labs(title= 'Plot of longitude') + theme_minimal()
+ guides(fill = F)
## Warning: The `<scale>` argument of `guides()` cannot be `FALSE`. Use "none" instead as
## of ggplot2 3.3.4.
## This warning is displayed once every 8 hours.
## Call `lifecycle::last_lifecycle_warnings()` to see where this warning was
## generated.
## Warning: The dot-dot notation (`..count..`) was deprecated in ggplot2 3.4.0.
## i Please use `after_stat(count)` instead.
## This warning is displayed once every 8 hours.
## Call `lifecycle::last_lifecycle_warnings()` to see where this warning was
## generated.
## Warning: The following aesthetics were dropped during statistical transformation: fill
## i This can happen when ggplot fails to infer the correct grouping structure in
##
     the data.
## i Did you forget to specify a `group` aesthetic or to convert a numerical
     variable into a factor?
##
## The following aesthetics were dropped during statistical transformation: fill
## i This can happen when ggplot fails to infer the correct grouping structure in
##
    the data.
## i Did you forget to specify a `group` aesthetic or to convert a numerical
##
     variable into a factor?
```

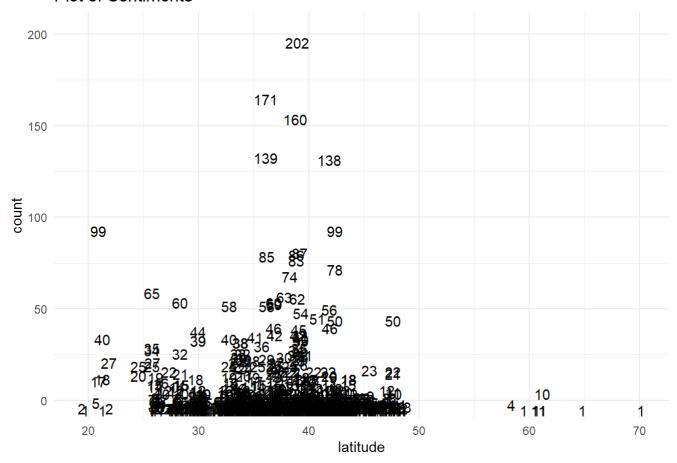




```
ggplot(data) + aes(latitude,fill= latitude) + geom_bar() +geom_text(stat='count', aes(label
=..count..), vjust=1.6, color="black") + labs(title= 'Plot of Sentiments') +
    scale_fill_manual(values = c("#ff576a","#3db5ff", "#66CC99"))+ theme_minimal() + guides(fi
ll= F)
```

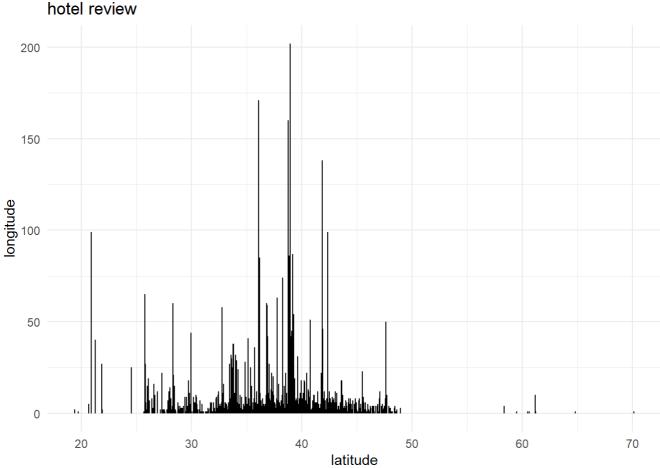
```
## Warning: The following aesthetics were dropped during statistical transformation: fill
## i This can happen when ggplot fails to infer the correct grouping structure in
## the data.
## i Did you forget to specify a `group` aesthetic or to convert a numerical
## variable into a factor?
## The following aesthetics were dropped during statistical transformation: fill
## i This can happen when ggplot fails to infer the correct grouping structure in
## the data.
## i Did you forget to specify a `group` aesthetic or to convert a numerical
## variable into a factor?
```

#### Plot of Sentiments



 $\label{eq:ggplot} $$ \gcd(x = \text{latitude }, \text{fill } = \text{longitude}) + \gcd(\text{colour } = \text{'black'}) + \text{scale\_fill } $$ \_\text{manual}(\text{values } = \text{c("#ff576a","#3db5ff", "#66CC99")}) + \text{labs}(x = \text{'latitude'}, y = \text{'longitude'}, t itle = \text{'hotel review '}) + \text{theme}(\text{axis.text.x} = \text{element\_text}(\text{angle } = 25, \text{size=9})) + \text{theme\_minim al()} + \text{guides}(\text{fill= F})$ 

```
## Warning: The following aesthetics were dropped during statistical transformation: fill
## i This can happen when ggplot fails to infer the correct grouping structure in
## the data.
## i Did you forget to specify a `group` aesthetic or to convert a numerical
## variable into a factor?
```



```
library(wordcloud)

## Warning: package 'wordcloud' was built under R version 4.3.2

## Loading required package: RColorBrewer

library(gganimate)

## Warning: package 'gganimate' was built under R version 4.3.2
```

```
## No renderer backend detected. gganimate will default to writing frames to separate files
## Consider installing:
## - the `gifski` package for gif output
## - the `av` package for video output
## and restarting the R session
```

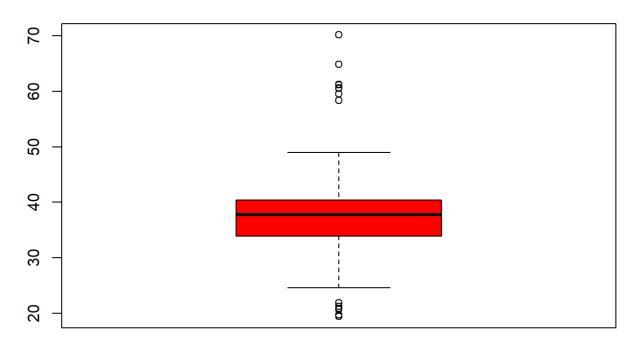
# Analysis

The Hotel Reviews dataset provides a diverse collection of customer feedback, encompassing various hotels worldwide. Analyzing this dataset reveals valuable insights into customer preferences, satisfaction levels, and key factors influencing hotel experiences. Researchers can leverage sentiment analysis to extract sentiments from textual reviews, enabling a deeper understanding of overall trends and areas for improvement in the hospitality industry. The dataset facilitates comprehensive

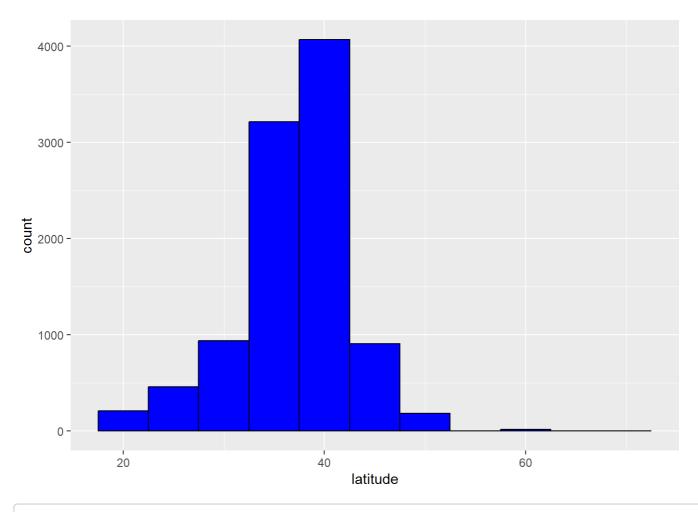
exploration of customer opinions, contributing to enhanced service quality and customer satisfaction strategies for hotel management.

```
# Adding Means to a Box Plot
boxplot(data$latitude, mean = TRUE, col = "red", main = "Box Plot with Means")
```

#### **Box Plot with Means**

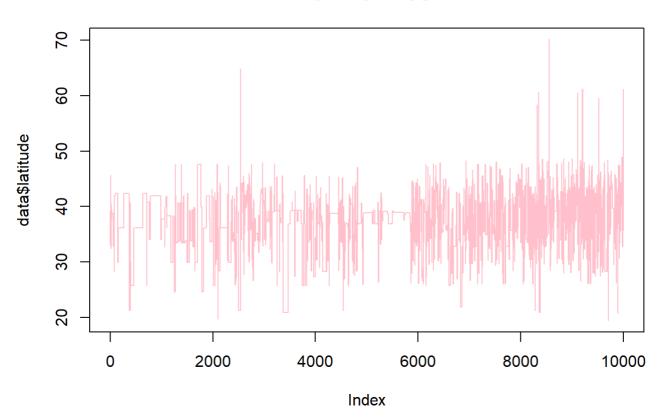


```
# Creating a Histogram for the hotel review
ggplot(data, aes(x = latitude)) + geom_histogram(binwidth = 5, fill = "blue", color = "blac
k")
```



# Making a Frequency Polygon for the hotel review
plot(data\$latitude, type = "l", lty = 1, col = "pink", main = "Frequency Polygon")

#### **Frequency Polygon**



#Calculates the standard deviation a dataset
sd(data\$latitude)

## [1] 5.517273

#converting data type
as.numeric(data\$longitude)

```
##
       [1] -117.18614 -117.18614 -117.18614 -76.71634 -76.71634 -76.71634
##
       [7]
           -76.71634
                      -76.71634
                                  -76.71634 -122.52520 -122.52520 -122.52520
##
      [13] -122.52520 -122.52520 -122.52520
                                            -94.58470 -94.58470
                                                                  -94.58470
                                  -77.96976
                                             -83.74522 -122.40579 -122.40579
##
      [19]
            -94.58470
                      -94.58470
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                                                       -77.01502 -77.01502
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      [25] -122.40579 -122.40579
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      [31]
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      [43]
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      [97]
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     [157] -115.14307 -115.14307 -115.14565 -115.14307 -115.14565
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     [163] -115.14307 -115.14307 -115.14307 -115.14565 -115.14565
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##
     [331]
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