Supervised Learning

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9/02/2021

Analysis on Ads

Data Understanding

1. Define the question:

I am a data scientist working to create a supervised learning model to identify which individuals are most likely to click on my client's ads on her blog.

- 2. Metric for success:
- Cleaned data.
- Graphical representation of the relationships in the data as well as the distributions f the different variables in the data.
- Create a model using KNN.
- Sound conclusions and recommendations to the client as per the analysis done.
- 3. Understanding the context:

A Kenyan entrepreneur has created an online cryptography course and would want to advertise it on her blog.

She currently targets audiences originating from various countries.

In the past, she ran ads to advertise a related course on the same blog and collected data in the process. She would now like to employ my services as a Data Science Consultant to help her identify which individuals are most likely to click on her ads.

4. Experimental design:

Steps to be undertaken during this study include: - Loading the data & needed packages. - Exploring the dataset. - Cleaning the data. - Feature engineering. - Exploratory Data Analysis. - Conclusions. - Recommendations. - Implementing the Solution - Challenging the Solution

5. Data appropriateness:

This will be well checked & described in the data cleaning.

Exploring the data

```
# Loading the libraries
#install.packages("corrplot")
library("corrplot")
```

```
## corrplot 0.90 loaded
#install.packages("PerformanceAnalytics")
library("PerformanceAnalytics")
## Loading required package: xts
## Loading required package: zoo
##
## Attaching package: 'zoo'
## The following objects are masked from 'package:base':
##
##
       as.Date, as.Date.numeric
##
## Attaching package: 'PerformanceAnalytics'
## The following object is masked from 'package:graphics':
##
##
       legend
#install.packages("ggplot2")
library("ggplot2")
#install.packages("data.table")
library("data.table")
##
## Attaching package: 'data.table'
## The following objects are masked from 'package:xts':
##
       first, last
##
#detach("package:dplyr", unload = TRUE)
#install.packages("dplyr", dependencies = TRUE)
library("dplyr")
##
## Attaching package: 'dplyr'
## The following objects are masked from 'package:data.table':
##
##
       between, first, last
## The following objects are masked from 'package:xts':
##
       first, last
##
## The following objects are masked from 'package:stats':
##
##
       filter, lag
```

```
## The following objects are masked from 'package:base':
##
       intersect, setdiff, setequal, union
##
#install.packages("tidyr")
library("tidyr")
# Packages for modelling
#install.packages("rpart",dependencies = TRUE)
library("rpart")
#install.packages("rpart.plot", dependencies=TRUE)
library("rpart.plot")
#install.packages("mlbench", dependencies = TRUE)
library("mlbench")
# Loading the data
data = read.csv('advertising.csv', header = TRUE, sep = ',')
# Previewing the data
head(data)
     Daily.Time.Spent.on.Site Age Area.Income Daily.Internet.Usage
##
## 1
                        68.95 35
                                      61833.90
## 2
                        80.23 31
                                      68441.85
                                                             193.77
## 3
                        69.47 26
                                      59785.94
                                                             236.50
## 4
                        74.15 29
                                      54806.18
                                                             245.89
## 5
                        68.37
                               35
                                      73889.99
                                                             225.58
## 6
                        59.99 23
                                                             226.74
                                      59761.56
                             Ad.Topic.Line
                                                                   Country
##
                                                      City Male
## 1
        Cloned 5thgeneration orchestration
                                               Wrightburgh
                                                                   Tunisia
## 2
        Monitored national standardization
                                                 West Jodi
                                                              1
                                                                     Nauru
## 3
          Organic bottom-line service-desk
                                                  Davidton
                                                              0 San Marino
## 4 Triple-buffered reciprocal time-frame West Terrifurt
                                                              1
                                                                      Italy
             Robust logistical utilization
## 5
                                              South Manuel
                                                              0
                                                                   Iceland
## 6
           Sharable client-driven software
                                                              1
                                                 Jamieberg
                                                                    Norway
               Timestamp Clicked.on.Ad
##
## 1 2016-03-27 00:53:11
## 2 2016-04-04 01:39:02
                                      0
## 3 2016-03-13 20:35:42
                                      0
## 4 2016-01-10 02:31:19
                                      0
## 5 2016-06-03 03:36:18
                                      0
## 6 2016-05-19 14:30:17
# Checking the shape of the data
dim(data)
## [1] 1000
              10
```

The dataset has 1000 entries and 10 columns.

```
# Checking column names of our data
colnames(data)

## [1] "Daily.Time.Spent.on.Site" "Age"

## [3] "Area.Income" "Daily.Internet.Usage"

## [5] "Ad.Topic.Line" "City"

## [7] "Male" "Country"

## [9] "Timestamp" "Clicked.on.Ad"
```

Our column titles are as listed above. We shall rename the "Male" column so that it becomes "Gender" then the 0 will represent males, and 0 for females.

```
# Renaming "Male" column
colnames(data)[7] <- "Gender"

# Checking if column name has changed
colnames(data)

## [1] "Daily.Time.Spent.on.Site" "Age"

## [3] "Area.Income" "Daily.Internet.Usage"

## [5] "Ad.Topic.Line" "City"

## [7] "Gender" "Country"

## [9] "Timestamp" "Clicked.on.Ad"</pre>
```

Data Cleaning

1. Dealing with missing data

```
# Checking for missing values
null_values = is.na(data)
null_values
##
            Daily.Time.Spent.on.Site
                                         Age Area. Income Daily. Internet. Usage
##
                                                    FALSE
                                                                           FALSE
      [1,]
                                FALSE FALSE
##
      [2,]
                                FALSE FALSE
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##
      [3,]
                                FALSE FALSE
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      [4,]
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     [18,]
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     [19,]
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##	[794,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[795,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[796,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[797,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[798,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[799,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[800,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[801,]	FALSE FALSE		FALSE	FALSE	FALSE
##	[802,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[803,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[804,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[805,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[806,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[807,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[808,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[809,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[810,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[811,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[812,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[813,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[814,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[815,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[816,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[817,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[818,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE

##	[819,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[820,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[821,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[822,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[823,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[824,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[825,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[826,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[827,]	FALSE FALSE		FALSE	FALSE	FALSE
##	[828,]	FALSE FALSE		FALSE	FALSE	FALSE
##	[829,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[830,]	FALSE FALSE		FALSE	FALSE	FALSE
##	[831,]	FALSE FALSE		FALSE	FALSE	FALSE
##	[832,]	FALSE FALSE		FALSE	FALSE	FALSE
##	[833,]	FALSE FALSE		FALSE	FALSE	FALSE
##		FALSE FALSE		FALSE	FALSE	FALSE
	[834,]	FALSE FALSE		FALSE	FALSE	FALSE
##	[835,]					
##	[836,]	FALSE FALSE		FALSE	FALSE	FALSE
##	[837,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[838,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[839,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[840,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[841,]	FALSE FALSE		FALSE	FALSE	FALSE
##	[842,]	FALSE FALSE		FALSE	FALSE	FALSE
##	[843,]	FALSE FALSE		FALSE	FALSE	FALSE
##	[844,]	FALSE FALSE		FALSE	FALSE	FALSE
##	[845,]	FALSE FALSE		FALSE	FALSE	FALSE
##	[846,]	FALSE FALSE		FALSE	FALSE	FALSE
##	[847,]	FALSE FALSE		FALSE	FALSE	FALSE
##	[848,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[849,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[850,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[851,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[852,]	FALSE FALSE		FALSE	FALSE	FALSE
	[853,]	FALSE FALSE			FALSE	FALSE
##	[854,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[855,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[856,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[857,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[858,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[859,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[860,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[861,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[862,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[863,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[864,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[865,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[866,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[867,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[868,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE

##	[869,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[870,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[871,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[872,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[873,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[874,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[875,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[876,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[877,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[878,]	FALSE FALSE		FALSE	FALSE	FALSE
##	[879,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[880,]	FALSE FALSE		FALSE	FALSE	FALSE
##	[881,]	FALSE FALSE		FALSE	FALSE	FALSE
##	[882,]	FALSE FALSE		FALSE	FALSE	FALSE
##		FALSE FALSE		FALSE	FALSE	FALSE
	[883,]	FALSE FALSE				
##	[884,]			FALSE	FALSE	FALSE FALSE
##	[885,]	FALSE FALSE		FALSE	FALSE	
##	[886,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[887,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[888,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[889,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[890,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[891,]	FALSE FALSE		FALSE	FALSE	FALSE
##	[892,]	FALSE FALSE		FALSE	FALSE	FALSE
##	[893,]	FALSE FALSE		FALSE	FALSE	FALSE
##	[894,]	FALSE FALSE		FALSE	FALSE	FALSE
##	[895,]	FALSE FALSE		FALSE	FALSE	FALSE
##	[896,]	FALSE FALSE		FALSE	FALSE	FALSE
##	[897,]	FALSE FALSE		FALSE	FALSE	FALSE
##	[898,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[899,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[900,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[901,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[902,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
	[903,]	FALSE FALSE			FALSE	FALSE
##	[904,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[905,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[906,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[907,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[908,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[909,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[910,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[911,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[912,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[913,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[914,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[915,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[916,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[917,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[918,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE

##	[919,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[920,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[921,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[922,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[923,]	FALSE FALSE		FALSE	FALSE	FALSE
##	[924,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[925,]	FALSE FALSE		FALSE	FALSE	FALSE
##	[926,]	FALSE FALSE		FALSE	FALSE	FALSE
##	[927,]	FALSE FALSE		FALSE	FALSE	FALSE
##	[928,]	FALSE FALSE		FALSE	FALSE	FALSE
##	[929,]	FALSE FALSE		FALSE	FALSE	FALSE
	[930,]	FALSE FALSE		FALSE	FALSE	FALSE
	[931,]	FALSE FALSE		FALSE	FALSE	FALSE
##	[932,]	FALSE FALSE		FALSE	FALSE	FALSE
##	[933,]	FALSE FALSE		FALSE	FALSE	FALSE
		FALSE FALSE				FALSE
##	[934,]			FALSE	FALSE	FALSE
##	[935,]	FALSE FALSE		FALSE	FALSE	
##	[936,]	FALSE FALSE		FALSE	FALSE	FALSE
	[937,]	FALSE FALSE		FALSE	FALSE	FALSE
##	[938,]	FALSE FALSE		FALSE	FALSE	FALSE
##	[939,]	FALSE FALSE		FALSE	FALSE	FALSE
##	[940,]	FALSE FALSE		FALSE	FALSE	FALSE
##	[941,]	FALSE FALSE		FALSE	FALSE	FALSE
##	[942,]	FALSE FALSE		FALSE	FALSE	FALSE
##	[943,]	FALSE FALSE		FALSE	FALSE	FALSE
	[944,]	FALSE FALSE		FALSE	FALSE	FALSE
##	[945,]	FALSE FALSE		FALSE	FALSE	FALSE
##	[946,]	FALSE FALSE		FALSE	FALSE	FALSE
##	[947,]	FALSE FALSE		FALSE	FALSE	FALSE
##	[948,]	FALSE FALSE		FALSE	FALSE	FALSE
##	[949,]	FALSE FALSE		FALSE	FALSE	FALSE
##	[950,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[951,]	FALSE FALSE		FALSE	FALSE	FALSE
##	[952,]	FALSE FALSE		FALSE	FALSE	FALSE
	[953,]	FALSE FALSE			FALSE	FALSE
##	[954,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[955,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[956,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[957,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[958,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[959,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[960,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[961,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[962,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[963,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[964,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[965,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[966,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[967,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[968,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE

##	[969,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[970,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[971,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[972,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[973,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[974,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[975,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[976,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[977,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[978,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[979,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[980,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[981,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[982,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[983,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[984,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[985,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[986,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[987,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[988,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[989,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[990,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[991,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[992,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[993,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[994,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[995,]	FALSE FALSE		FALSE	FALSE	FALSE
##	[996,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[997,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[998,]	FALSE FALSE		FALSE	FALSE	FALSE
##	[999,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE
##	[1000,]	FALSE FALSE	FALSE	FALSE	FALSE	FALSE

Our data seems to have no nulls since most of the fields are showing "FALSE" for our code. We shall do a coun to check for the total number of null values.

```
length(which(is.na(data)))
## [1] 0
```

The data has no missing values

2. Checking for duplicates:

```
duplicates = duplicated(data)
duplicates

## [1] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [13] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [25] FALSE FA
```

```
FALSE
    [37] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
    [49] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
    [61] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##
FALSE
    [73] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
##
    [85] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
    [97] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [109] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [121] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [133] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [145] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [157] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [169] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [181] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [193] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [205] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [217] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [229] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [241] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [253] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [265] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [277] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [289] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [301] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [313] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [325] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
```

```
FALSE
## [337] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [349] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [361] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [373] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [385] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [397] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [409] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [421] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [433] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [445] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [457] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [469] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [481] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [493] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [505] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [517] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [529] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [541] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [553] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [565] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [577] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [589] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [601] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [613] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [625] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
```

```
FALSE
## [637] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [649] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [661] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [673] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [685] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [697] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [709] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [721] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [733] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [745] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [757] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [769] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [781] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [793] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [805] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [817] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [829] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [841] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [853] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [865] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [877] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [889] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [901] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [913] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
## [925] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
```

```
FALSE
## [937] FALSE FALSE
FALSE
## [949] FALSE FALSE
FALSE
## [961] FALSE FALSE
FALSE
## [973] FALSE FALSE
FALSE
## [985] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [997] FALSE FALSE FALSE FALSE FALSE
```

The data seems to have no duplicates. We shall do a count just to make sure.

```
length(which(duplicated(data)))
## [1] 0
```

There are no duplicates in our dataset.

3. Checking column data types

```
# Checking the columns datatypes
str(data)
## 'data.frame':
                   1000 obs. of 10 variables:
## $ Daily.Time.Spent.on.Site: num 69 80.2 69.5 74.2 68.4 ...
## $ Age
                            : int 35 31 26 29 35 23 33 48 30 20 ...
## $ Area.Income
                            : num 61834 68442 59786 54806 73890 ...
## $ Daily.Internet.Usage : num 256 194 236 246 226 ...
## $ Ad.Topic.Line : chr "Cloned 5thgeneration orchestration"
"Monitored national standardization" "Organic bottom-line service-desk"
"Triple-buffered reciprocal time-frame" ...
                            : chr "Wrightburgh" "West Jodi" "Davidton"
## $ City
"West Terrifurt" ...
## $ Gender
                            : int 0101010111...
                             : chr "Tunisia" "Nauru" "San Marino" "Italy"
## $ Country
## $ Timestamp
                            : chr "2016-03-27 00:53:11" "2016-04-04
01:39:02" "2016-03-13 20:35:42" "2016-01-10 02:31:19" ...
                     : int 000000100...
## $ Clicked.on.Ad
```

All our columns have the right data type except for the time. We shall convert it to a timestamp for ease of calculation

```
# Converting date from character to a timestamp
data$Timestamp <- as.Date(data$Timestamp)

# Checking data type to confirm change
str(data)</pre>
```

```
## 'data.frame': 1000 obs. of 10 variables:
## $ Daily.Time.Spent.on.Site: num 69 80.2 69.5 74.2 68.4 ...
## $ Age
                           : int 35 31 26 29 35 23 33 48 30 20 ...
## $ Area.Income
                           : num 61834 68442 59786 54806 73890 ...
                          : num 256 194 236 246 226 ...
## $ Daily.Internet.Usage
## $ Ad.Topic.Line
                           : chr "Cloned 5thgeneration orchestration"
"Monitored national standardization" "Organic bottom-line service-desk"
"Triple-buffered reciprocal time-frame" ...
                                 "Wrightburgh" "West Jodi" "Davidton"
## $ City
                           : chr
"West Terrifurt" ...
## $ Gender
                          : int 0101010111...
                          : chr "Tunisia" "Nauru" "San Marino" "Italy"
## $ Country
## $ Timestamp
                          : Date, format: "2016-03-27" "2016-04-04" ...
## $ Clicked.on.Ad
                      : int 0000000100...
```

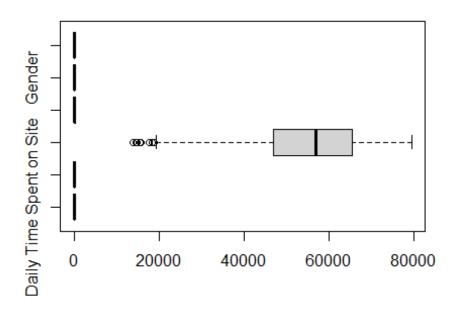
The data types are all okay now.

4. Checking for outliers

```
# Checking for outliers in the numerical columns
Time_spent = data$Daily.Time.Spent.on.Site
Age = data$Age
Income = data$Area.Income
Internet = data$Daily.Internet.Usage
Gender = data$Gender
Clicked = data$Clicked.on.Ad

boxplot(Time_spent, Age, Income, Internet, Gender, Clicked, main = "Boxplots to check for outliers", names = c("Daily Time Spent on Site", "Age", "Income","Daily Internet Usage", "Gender","Clicked on ad"), horizontal = TRUE)
```

Boxplots to check for outliers



The columns do not

have outliers except the income column which has quite a number of outliers, which may be due to the paygaps that exist in the real world. Thus we shall ignore them for this project.

Feature Engineering

We'd like to extract the year, month, & day from the time stamp so we can derive more insights from it.

```
#Separating our Time stamp column into Year, Month and day.
data = separate(data, "Timestamp", c("Year", "Month", "Day"), sep = "-")
head(data)
##
     Daily.Time.Spent.on.Site Age Area.Income Daily.Internet.Usage
## 1
                        68.95
                                35
                                      61833.90
                                                              256.09
## 2
                        80.23 31
                                                              193.77
                                      68441.85
## 3
                        69.47
                               26
                                      59785.94
                                                              236.50
## 4
                        74.15
                                29
                                      54806.18
                                                              245.89
                                      73889.99
## 5
                        68.37
                                35
                                                              225.58
                               23
## 6
                        59.99
                                      59761.56
                                                              226.74
##
                              Ad.Topic.Line
                                                      City Gender
                                                                      Country
Year
## 1
        Cloned 5thgeneration orchestration
                                               Wrightburgh
                                                                      Tunisia
                                                                 0
2016
## 2
        Monitored national standardization
                                                 West Jodi
                                                                 1
                                                                        Nauru
2016
```

## 3	(Orgar	nic bottom-line service-des	k Davidton	0 S	an Marino
2016				–	_	
	Triple	e-but	ffered reciprocal time-fram	ie West Territurt	1	Italy
2016		_			•	
## 5		Ro	obust logistical utilizatio	n South Manuel	0	Iceland
2016		٠.				
## 6		Shar	rable client-driven softwar	re Jamieberg	1	Norway
2016						
##	Month	Day	Clicked.on.Ad			
## 1	03	27	0			
## 2	04	04	0			
## 3	03	13	0			
## 4	01	10	0			
## 5	06	03	0			
## 6	05	19	0			

Exploratory Data Analysis

1. Univariate Analysis

Measures of Dispersion

a) Mean

```
# Creating a dataframe with only the numeric columns
data_num = data[,c("Daily.Time.Spent.on.Site", "Age",
"Area.Income", "Daily.Internet.Usage", "Gender", "Clicked.on.Ad")]
# Preview dataset
head(data_num)
##
     Daily.Time.Spent.on.Site Age Area.Income Daily.Internet.Usage Gender
## 1
                        68.95 35
                                      61833.90
                                                             256.09
                                                                         0
                        80.23 31
## 2
                                      68441.85
                                                             193.77
                                                                         1
## 3
                        69.47 26
                                      59785.94
                                                             236.50
                                                                         0
                        74.15 29
## 4
                                      54806.18
                                                             245.89
                                                                          1
## 5
                        68.37 35
                                      73889.99
                                                             225.58
                                                                         0
## 6
                        59.99 23
                                      59761.56
                                                             226.74
                                                                         1
     Clicked.on.Ad
##
## 1
## 2
                 0
## 3
                 0
## 4
                 0
                 0
## 5
## 6
# Calculating the mean
colMeans(data_num)
## Daily.Time.Spent.on.Site
                                                                   Area.Income
                                                  Age
                    65.0002
                                              36.0090
                                                                     55000.0001
```

```
## Daily.Internet.Usage Gender Clicked.on.Ad
## 180.0001 0.4810 0.5000
```

The means for the different columns are as shown in the output above.

b) Mode

```
# Create the function.
getmode <- function(v) {</pre>
   uniqv <- unique(v)</pre>
   uniqv[which.max(tabulate(match(v, uniqv)))]
}
# Get the mode for different columns
getmode(data$Daily.Time.Spent.on.Site)
## [1] 62.26
getmode(data$Age)
## [1] 31
getmode(data$Area.Income)
## [1] 61833.9
getmode(data$Daily.Internet.Usage)
## [1] 167.22
getmode(data$City)
## [1] "Lisamouth"
getmode(data$Gender)
## [1] 0
getmode(data$Country)
## [1] "Czech Republic"
getmode(data$Clicked.on.Ad)
## [1] 0
getmode(data$Month)
## [1] "02"
```

The most common amount of time spent on the site is 62.26, while the most popular age is 31 years. Most of the site visits have an income of 61,833.9. The city with most visitors is Lisamouth while Czech Republic had the most site visitors. I would have expected the city with the most number of visitors to belong to the country with the most visitors, however,

Lisamouth had different countries on the dataset provided. Most of the visitors were female, while most didn't click on the ads. The site had most traffic in February.

c) Median

```
# Calculating median
median(data$Daily.Time.Spent.on.Site)
## [1] 68.215
median(data$Age)
## [1] 35
median(data$Area.Income)
## [1] 57012.3
median(data$Daily.Internet.Usage)
## [1] 183.13
median(data$Gender)
## [1] 0
median(data$Clicked.on.Ad)
## [1] 0.5
```

The medians for each column is as shown above

d) Range

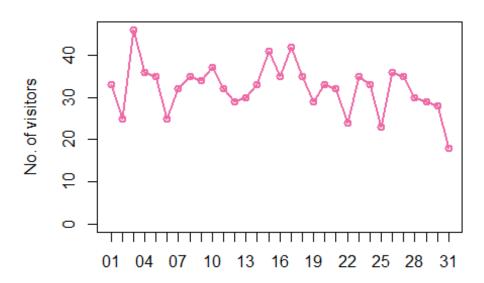
```
# Calculating the ranges
range(data$Daily.Time.Spent.on.Site)
## [1] 32.60 91.43
range(data$Age)
## [1] 19 61
range(data$Area.Income)
## [1] 13996.5 79484.8
range(data$Daily.Internet.Usage)
## [1] 104.78 269.96
range(data$Gender)
## [1] 0 1
range(data$Clicked.on.Ad)
```

The codes above show the ranges for each of the columns in our dataset

Plots:

A bar plot showing the distribution of visitors accross different days
plot(table(data\$Day), type = "o", main = "Distribution of Visitors across
Days", ylab = "No. of visitors", col = "hotpink2")

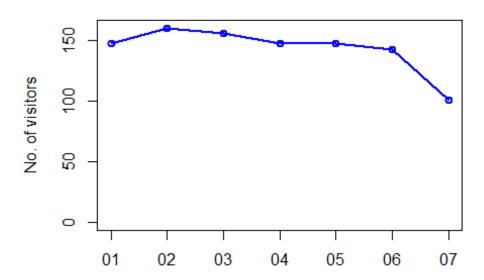
Distribution of Visitors across Days



From our plot, we can see that most visitors visited the site on 3rd then 15th. The middle of the month had a high rate of visitors.

A bar plot showing the distribution of visitors accross different months
plot(table(data\$Month), type = "o", main = "Distribution of Visitors across
Months", ylab = "No. of visitors", col = "blue")

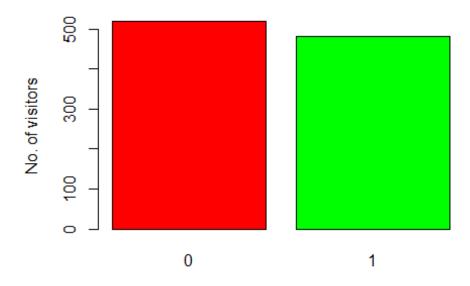
Distribution of Visitors across Months



From our plot, we can see that February had the highest site traffic, followed closely by March, then April. July had the least amount of traffic to the site.

```
# A bar plot showing the gender distribution
barplot(table(data$Gender), col = c("red" , "green"), ylab = "No. of
visitors", main = "Distribution of Gender")
```

Distribution of Gender

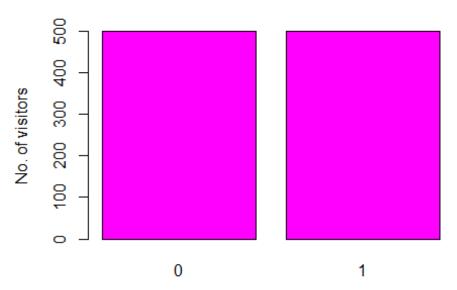


From the plot, we

can see that 0, ie females, caused the highest traffic to the site.

A bar plot showing the distribution of visitors who clicked on the ads
barplot(table(data\$Clicked.on.Ad), main = "Distribution of Visitors who
clicked on ads", ylab = "No. of visitors", col ="magenta")

Distribution of Visitors who clicked on ads



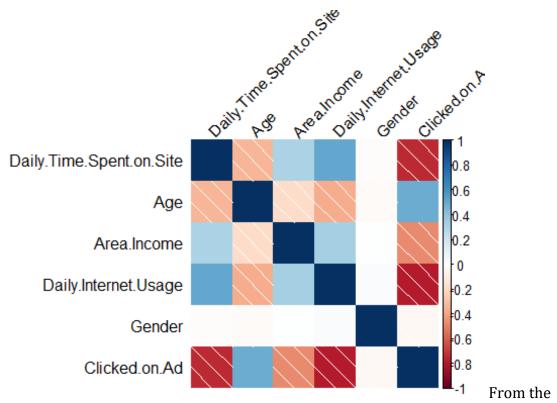
From the plot, it seems like there was an equal amount of visitors who clicked on ads as well as those who didn't.

2. Bivariate Analysis

```
#Calculating the correlation between columns

correlation = cor(data_num)

# Creating a correlogram to plot our correlation for better presentation
corrplot(correlation, method="shade", tl.col="black", tl.srt=45)
```

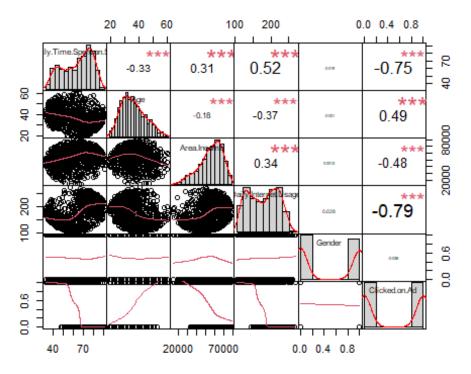


correlogram above & using the legend on the right, we can see that:

- Daily time spent on the site has a high negative relationship with whether one clicked on an ad. Thus if one spends alot of time on the site, there is a high chance of them not clicking on an ad.
- There's a low negative relationship between one's age and the daily time spent on the site as well as their daily internet usage. Thus the higher one's age, the less likely they are to spend more time on the site or to have a high internet usage.
- There is a medium negative relationship between one's income and whether they clicked on an ad. Thus, the higher one's income, the less likely they are to click on ad.
- There's a medium positive relationship between one's daily internet usage and the daily time spent on the site. This shows that there's a medium chance that people with a high internet usage would be those spending a lot of time on the site.
- There is also a medium positive relationship between one's age and whether they clicked on ads. Thus the older one's age, the more like they are to click on an ad, however the realtionship is not too strong.

```
# Plotting scatterplots to get the distributions of the columns as well as
the significance value

chart.Correlation(data_num, histogram = TRUE,)
```



From the scatterplot above, we can see the significance levels for the different variables, as well as the scatter plots with the fitted lines. We can also see the different distributions for our

the scatter plots with the fitted lines. We can also see the different distributions for our datasets.

Conclusion

The most common amount of time spent on the site is 62.26, while the most popular age is 31 years. Most of the site visits have an income of 61,833.9. The city with most visitors is Lisamouth while Czech Republic had the most site visitors. Most of the visitors were female, while most didn't click on the ads. The site had most traffic in February. The internet users that are most likely to click on our client's ads are those who spend very little time online. Also the lower ones income is, the higher the chances of them clicking on the ads. The older one is, the more like they are to click on an ad, however the relationship is not too strong.

Recommendations

My recommendation as a data scientist, would be for her to do curate the ads to be mostly on courses that may interest the people most likely to click on the ads as outlined above. She can also include other content so as to pique other users to click more on the ads.

Implementing the Solution using KNN

We will convert our labels on the target variable to be categorical

```
#Converting labels to categorical
data$Clicked.on.Ad <- factor(data$Clicked.on.Ad)</pre>
```

We will then check for class imbalance

```
round(prop.table(table(data$Clicked.on.Ad)) * 100, digits = 1)
##
## 0 1
## 50 50
```

There seems to be no data imbalance in our dataset

We will now select the features we shall use for modelling

```
unique(data[c("City")])
##
                            City
## 1
                     Wrightburgh
## 2
                       West Jodi
                        Davidton
## 3
                  West Terrifurt
## 4
## 5
                    South Manuel
                       Jamieberg
## 6
## 7
                     Brandonstad
## 8
               Port Jefferybury
                      West Colin
## 9
## 10
                      Ramirezton
## 11
                 West Brandonton
## 12
              East Theresashire
## 13
                  West Katiefurt
## 14
                      North Tara
## 15
                    West William
## 16
                  New Travistown
## 17
                  West Dylanberg
                     Pruittmouth
## 18
## 19
                     Jessicastad
## 20
                      Millertown
## 21
                 Port Jacqueline
## 22
                     Lake Nicole
## 23
                      South John
## 24
                     Pamelamouth
## 25
                   Harperborough
## 26
              Port Danielleberg
                 West Jeremyside
## 27
                 South Cathyfurt
## 28
## 29
                      Palmerside
## 30
                    West Guybury
## 31
                   Phelpschester
## 32
               Lake Melindamouth
## 33
             North Richardburgh
## 34
                     Port Cassie
                      New Thomas
## 35
## 36
                        Johnstad
```

##		West Aprilport
##		Kellytown
##		Charlesport
##		Millerchester
##		Mackenziemouth
##		Zacharystad
##		North Joshua
##	44	Bowenview
##	45	Jamesberg
##	46	Lake Cassandraport
##	47	New Sharon
##	48	Johnport
##		Hamiltonfort
##		West Christopher
##		Hollandberg
##		Odomville
##		East Samanthashire
##		South Lauraton
##		Amandahaven
##		Thomasview
##		Garciaside
##		Port Sarahshire
##		Port Gregory
##		Brendachester
##		Lake Amy
##		Lake Annashire
##		Smithburgh
##	64	North Leonmouth
##	65	Robertfurt
##	66	Jasminefort
##		Jensenborough
##		Bradleyburgh
##		New Sheila
##		North Regina
##		Davidmouth
##		New Michaeltown
##		East Tammie
##		Wilcoxport
##		East Michaelmouth
##		East Tiffanyport
##		Ramirezhaven
##	78	Cranemouth
##	79	Lake Edward
##	80	Lake Conniefurt
##		East Shawnchester
##		West Joseph
##		Lake Christopherfurt
##		East Tylershire
##		Sharpberg
##		Lake Dustin
##	00	Lake Dustin

##	97	North Kristine
##		Grahamberg
##		New Tina
##		Nelsonfurt
##		Christopherport
	92	Port Sarahhaven
##		Bradleyborough
##		Whiteport
##		New Theresa
##		Wongland
##		Williammouth
##		Williamsborough
##		North Michael
##	100	Benjaminchester
##	101	Hernandezville
##	102	Youngburgh
##	103	Wallacechester
	104	Sanchezmouth
##	105	Bradshawborough
	106	Amyhaven
	107	Marcushaven
	108	Erinton
	109	Hughesport
	111	New Lucasburgh
	112	Michelleside
	113	Andersonton
	114	New Rachel
	115	Port Susan
	116	West Angelabury
	117	Port Christopherborough
		· · · · · · · · · · · · · · · · · · ·
	118	Phillipsbury
	119	Millerside
	120	Lake Jessica
	121	Lopezmouth
	122	Johnsport
	123	South Ronald
	124	South Daniel
	125	Suzannetown
	126	Lisaberg
##	127	Brianfurt
##	128	Stewartbury
##	130	North Wesleychester
##	131	East Michelleberg
	132	Port Eric
	133	Timothyfurt
	134	Port Jeffrey
	135	Guzmanland
	136	East Michele
	137	East John
	138	Lesliebury
##	130	restrepury

	139	Patriciahaven
	140	Ashleychester
	141	Lake Josetown
	142	Debraburgh
	143	New Debbiestad
	144	West Shaun
	145	Kimberlyhaven
##	146	Port Lawrence
##	147	West Ricardo
##	148	Lake Jose
##	149	Heatherberg
##	150	South George
##	151	Tinachester
##	152	Port Jodi
##	153	Jonathantown
	154	Sylviaview
	155	East Timothyport
	156	West Roytown
	157	Codyburgh
	158	Port Erikhaven
	159	Port Chasemouth
	160	Ramirezside
	161	East Michaeltown
	162	West Courtney
	163	West Michaelhaven
	164	Walshhaven
	165	East Rachelview
	166	Curtisport
	167	Frankbury
	168	Timothytown
	169	Samanthaland
	170	South Jennifer
##	171	Kyleborough
##	172	North Randy
##	173	South Daniellefort
	174	Dianashire
##	175	East Eric
	176	Hammondport
	177	Jacobstad
	178	Hernandezfort
	179	Joneston
	180	New Jeffreychester
	181	East Stephen
	182	Turnerchester
	183	Youngfort
	184	Ingramberg
	185	South Denisefurt
	186	Port Melissaberg
	187	Bernardton
##	188	Port Mathew

	189	Aliciatown
	190	Josephstad
	191	West Ericfurt
	192	New Brendafurt
	193	Port Julie
	194	South Tiffanyton
	195	North Elizabeth
	196	Kentmouth
	197	West Casey
	198	East Henry
	199	Hollyfurt
	200	North Anna
	201	Port Destiny
	202	Ianmouth
##	203	North Johntown
##	204	Hannahside
	205	Wilsonburgh
##	206	North Russellborough
##	207	Murphymouth
##	208	Carterburgh
##	209	Penatown
##	210	Joechester
##	211	East Paul
##	212	Hartmanchester
	213	Mcdonaldfort
	214	North Mercedes
	215	Taylorberg
	216	Hansenmouth
	217	Bradyfurt
	218	West Jessicahaven
	219	Davilachester
	220	North Ricardotown
	221	Melissafurt
	222	East Brianberg
	223	Millerbury
	224	Garciaview
	225	Townsendfurt
	226	Williamstad
	227	West Connor
	228	West Justin
	229	
		Robertbury New Tinamouth
	230	
	231	Turnerview
	232	Reneechester
	233	West Tinashire
	234	Jamesfurt
	235	New Nancy
	236	Lisamouth
	237	Harveyport
##	238	Ramosstad

	239	North Kevinside
	240	Haleview
	241	Christinetown
	242	New Michael
	243	Jonesland
	244	North Shannon
	245	New Sonialand
##	246	Port Jason
##	247	East Barbara
##	248	Port Erinberg
##	249	Petersonfurt
##	250	New Lindaberg
##	251	West Russell
##	252	South Adam
##	253	North Tracyport
	254	Brownport
	255	Port Crystal
	256	Masonhaven
	257	Derrickhaven
	258	Olsonstad
	259	New Brandy
	260	South Jasminebury
	261	East Timothy
	262	Charlottefort
	263	Lake Beckyburgh
	264	West Lindseybury
	265	West Alyssa
	266	Lake Craigview
	267	Lake David
	268	Bruceburgh
	269	South Lauratown
	270	Port Robin
	271	Jacksonburgh
	272	Erinmouth
##	273	Port Aliciabury
##	274	Port Whitneyhaven
##	275	Jeffreyshire
##	276	Tinaton
##	277	North Loriburgh
	278	Wendyton
	279	Lake Jacqueline
	280	North Christopher
	281	Alexanderfurt
	282	West Pamela
	283	West Amanda
	284	South Tomside
	285	Bethburgh
	286	Jamiefort
	287	Garciamouth
##	288	West Brenda

	289	South Kyle
	290	Combsstad
	291	Lake Allenville
	292	Greenechester
	293	Jordantown
	294	Gravesport
	295	South Troy
##	296	Lake Patrick
##	297	Millerland
##	298	Port Jessicamouth
##	299	Paulport
##	300	Clineshire
##	301	Cynthiaside
##	302	Port Juan
##	303	Michellefort
##	304	Port Angelamouth
	305	Jessicahaven
##	306	North Daniel
	307	New Juan
	308	Amyfurt
	309	Harrishaven
	310	Roberttown
	311	Jeremyshire
	312	Birdshire
	313	New Amanda
	314	Curtisview
	315	Jacksonmouth
	316	North April
	317	Hayesmouth
	318	South Corey
	319	Juliaport
	320	Port Paultown
	321	East Vincentstad
	322	Kimberlytown
	323	New Steve
	324	New Johnberg
	325	Shawstad
##	326	New Rebecca
##	327	Jeffreyburgh
##	328	Faithview
	329	Richardsontown
	330	Port Brookeland
	331	East Christopherbury
	332	Port Christinemouth
	333	South Meghan
	334	Hessstad
	335	Rhondaborough
	336	Lewismouth
	337	New Paul
##	338	Lake Angela

	339	East Graceland
	340	Hartport
	341	East Yvonnechester
	342	Burgessside
	343	Hurleyborough
	344	Garychester
	345	East Kevinbury
##	346	Contrerasshire
	347	Erikville
##	348	Robertsonburgh
##	349	Karenton
##	350	Port Kathleenfort
##	351	Lake Adrian
##	353	Mollyport
##	354	Sandraland
##	355	Charlenetown
	356	Luischester
##	357	South Johnnymouth
	358	Hannaport
	359	East Anthony
	360	West Daleborough
	361	Morrismouth
	362	North Andrewstad
	364	West Tanya
	365	Novaktown
	366	Timothymouth
	367	Robertmouth
	368	Stephenborough
	369	Lake Kurtmouth
	370	Lauraburgh
	371	Rogerburgh
	372	Davidside
	373	West Thomas
	374	Andersonchester North Ronaldshire
	375 276	
	376	Greghaven
	377	Jordanmouth
	378	Meyersstad
	380	South Robert
	381	New Tyler
	382	Jordanshire
	383	Reyesland
	384	New Traceystad
	385	Port Brian
	386	Lake Courtney
##	387	Samuelborough
##	388	Christinehaven
##	389	Thomasstad
##	390	Kristintown
##	391	New Wanda

	392	Mariebury
	393	Christopherville
	394	New Jasmine
	395	Lopezberg
##	396	Jenniferstad
##	397	West Eduardotown
##	398	Davisfurt
##	399	Bakerhaven
	400	Paulshire
	401	West Jane
	402	Lake Brian
	403	Alvaradoport
	404	Lake Kevin
	405	Richardsonland
	406	East Sheriville
	407	Port Michealburgh
	408	Monicaview
	409	
		Katieport
	410	East Brittanyville
	411	West Travismouth
	412	Leonchester
	413	Ramirezland
	414	Brownton
	415	New Jessicaport
	416	New Denisebury
	417	Keithtown
##	418	Port Melissastad
##	419	Janiceview
##	420	Mataberg
##	421	West Melaniefurt
##	422	Millerfort
	423	Alexanderview
	424	South Jade
	425	Lake Susan
	426	South Vincentchester
	427	Williamsmouth
	428	Taylorport
	429	Williamsport
	439	
		Emilyfurt
	432	East Deborahhaven
	433	Port Katelynview
	434	Paulhaven
	435	Elizabethmouth
	436	Lake Jesus
##	437	North Tylerland
##	438	Munozberg
##	439	North Maryland
##	440	West Barbara
	441	Andrewborough
	442	New Gabriel
		NEW GODITET

	443	Port Patrickton
	444	West Julia
	445	New Keithburgh
	446	Richardsland
	447	North Aaronchester
	448	Lake Matthewland
	449	Kevinberg
	450	Morganfort
	451	Lovemouth
	452	Taylorhaven
	453	Jamesville
	454	East_Toddfort
	455	East Dana
	456	West Lucas
	457	Butlerfort
	458	Lindaside
	459	West Chloeborough
	460	Jayville
	461	East Lindsey
	462	Masseyshire
	463	Sarahton
##	464	Ryanhaven
##	465	Lake Deborahburgh
##	466	New Williammouth
##	467	Port Blake
##	468	West Richard
##	469	Brandymouth
##	470	Sandraville
##	471	Port Jessica
	472	Lake Jasonchester
	473	Pearsonfort
	474	Sellerstown
	475	Yuton
	476	Smithtown
	477	Joanntown
	478	South Peter
	479	Port Mitchell
	480	Pottermouth
	481	Lake Jonathanview
	482	Alanview
	483	Carterport
	484	New Daniellefort
	485	Welchshire
	486	Russellville
	487	West Lisa
	488	Greentown
	488 489	
		Timothyport
	490	Teresahaven
	491	Lake Stephenborough
##	492	Silvaton

	493	West Michaelstad
	494	Florestown
	495	New Jay
	496	North Lisachester
	497	Port Stacy
	498	Jensenton
	499	North Alexandra
	500	Rivasland
	501	Helenborough
	502	Garnerberg
	503	North Anaport
##	504	Pattymouth
##	505	South Alexisborough
##	506	East Jennifer
##	507	Hallfort
##	508	New Charleschester
##	509	East Breannafurt
##	510	East Susanland
	511	Estesfurt
	512	Shirleyfort
	513	Douglasview
	514	South Lisa
	515	Kingshire
	516	Rebeccamouth
	517	Brownbury
	518	South Aaron
	519	North Andrew
	520	South Walter
	521	Catherinefort
	522	East Donna
	524	North Kimberly
	525	South Stephanieport
		North Isabellaville
	526	
	527	North Aaronburgh
	528	Port James
	529	Danielview
	530	Port Stacey
	531	West Kevinfurt
	532	Lake Jennifer
	533	Reyesfurt
	534	West Carmenfurt
	535	North Stephanieberg
##	536	East Valerie
##	537	Sherrishire
##	538	Port Daniel
	539	Brownview
	540	Greerton
	541	Hatfieldshire
	542	Brianabury
	543	New Maria
	5.5	New Hai 1a

## ##	544	C-1-h
##	- 4-	Colebury
	545	Calebberg
##	546	Lake Ian
	547	Gomezport
	548	Shaneland
	549	East Aaron
	550	Dustinborough
	551	East Michaelland
	552	East Connie
	553	West Shannon
	554	North Lauraland
	555	Port Christopher
	556	South Patrickfort
	557	East Georgeside
	558	Charlesbury
##	560	South Renee
##	561	South Jackieberg
##	562	Loriville
##	563	Amandaland
##	564	West Robertside
##	565	North Sarashire
##	566	Port Maria
##	567	East Jessefort
##	568	Port Anthony
##	569	Edwardmouth
##	570	Dustinchester
	571	Rochabury
	573	Austinland
	574	Lake Gerald
	575	Wrightview
	576	Perryburgh
	577	Tracyhaven
	578	South Jaimeview
	579	Sandersland
	580	South Meredithmouth
	581	Richardsonshire
	582	Kimberlymouth
	583	Meghanchester
	584	Tammyshire
	586	Lake Elizabethside
	587	Villanuevaton
	588	Greerport
	589	North Garyhaven
	590	East Sharon
	591	Johnstonmouth
	591	East Heatherside
##	17/	
## ##		Pichandconmoli t h
## ## ##	594	Richardsonmouth
## ## ##	594 595	Jenniferhaven
## ## ## ##	594	

##	598	Knappburgh
	599	New Dawnland
	600	Chapmanmouth
	601	Robertside
	602	West Raymondmouth
	603	Costaburgh
	604	Kristineberg
	605	Sandrashire
	606	Andersonfurt
##	607	Tranland
##	608	Michaelland
##	609	East Rachaelfurt
##	610	Lake Johnbury
##	611	Elizabethstad
##	612	West Brad
##	613	Johnstonshire
##	614	Lake Timothy
##	615	Anthonyfurt
##	616	East Brettton
##	617	New Matthew
##	618	Christopherchester
##	619	Westshire
##	620	Alexisland
	621	Kevinchester
	622	New Patriciashire
	623	Port Brenda
	624	Port Brianfort
	625	Portermouth
	626	Hubbardmouth
	627	South Brian
	628	Hendrixmouth
	629	Julietown
	630	Lukeport
	631	New Shane
	632	Lake Jillville
	633	Johnsonfort
	634	Adamsbury
	635	East Maureen
	636	
		North Angelastad
	637	Amandafort
	638	Michaelmouth
	639	Ronaldport
	640	Port Davidland
	641	Isaacborough
	642	Lake Michael
	643	West Michaelshire
	644	Port Calvintown
	645	Parkerhaven
	646	Markhaven
##	647	Estradashire

##	648	Brianland
##	649	Cassandratown
	650	West Dannyberg
	651	East Debraborough
	652	Frankchester
	653	Lisafort
	654	Colemanshire
	655	Troyville
	656	Hobbsbury
	657	Harrisonmouth
	658	Port Eugeneport
	659	Karenmouth
	660	Brendaburgh
	661	New Christinatown
	662	Jacksonstad
	663	South Margaret
	664	Port Georgebury
##	666	Sanderstown
##	667	Perezland
##	668	Luisfurt
##	669	New Karenberg
##	670	West Leahton
##	671	West Sharon
##	672	Klineside
##	673	Lake Cynthia
##	674	South Cynthiashire
	675	
	676	West Samantha
	677	Jeremybury
	678	Blevinstown
	679	Meyerchester
	680	Reginamouth
	681	Donaldshire
	682	Salazarbury
	683	Lake Joshuafurt
	684	Wintersfort
	685	Jamesmouth
	686	Laurieside
	687	Andrewmouth
	688	West Angela
	689	East Carlos
	690	
		Kennedyfurt
	691	Blairville
	692	East Donnatown
	693	Matthewtown
	694	Brandonbury
	695	New Jamestown
	696	Mosleyburgh
	697	Leahside
##	698	West Wendyland

##	699	Lawrenceborough
	700	Kennethview
	701	West Mariafort
	702	Port Sherrystad
##	703	West Melissashire
	705	Lesliefort
	706	Shawnside
##	707	Josephmouth
##	708	Garciatown
##	709	Chaseshire
##	710	Destinyfurt
##	711	Mezaton
##	712	New Kayla
##	713	Carsonshire
##	714	Jacquelineshire
##	715	South Blakestad
	716	North Mark
	717	Kingchester
	718	Evansfurt
	719	South Adamhaven
	720	Brittanyborough
	721	Barbershire
	722	East Ericport
	723	Crawfordfurt
	724	Turnerville
	725	Kylieview
	726	West Zacharyborough
	727	Watsonfort
	728	Dayton
	729	Nicholasport
	730	Whitneyfort
	731	Coffeytown
		North Johnside
	732	
	733	Robinsonland
	735	West Ericaport
	736	Haleberg
	737	West Michaelport
	738	Ericksonmouth
	739	Yangside
	740	Estradafurt
	741	Frankport
	743	Williamsside
	744	Johnsonview
##	745	East Heidi
##	746	New Angelview
##	747	Lake Brandonview
##	748	Morganport
##	749	Browntown
##	750	Lake Hailey
	751	Olsonside

	752	Coxhaven
	753	Meaganfort
	754	North Monicaville
	755	Mullenside
##	756	Princebury
##	757	Bradleyside
##	758	Elizabethbury
	759	West Ryan
	760	New Tammy
	761	Sanchezland
	762	Rogerland
	763	Vanessaview
	764	Jessicashire
	765	Melissachester
	766	Johnsontown
	767	New Joshuaport
	768	Hernandezside
		New Williamville
	769	
	770	Gilbertville
	771	Newmanberg
	772	West Alice
	773	Cannonbury
	774	Shelbyport
	775	New Henry
##	776	Dustinmouth
##	779	New Hollyberg
##	780	Port Brittanyville
##	781	East Ronald
	782	South Davidmouth
	783	Carterton
	784	Rachelhaven
	785	New Timothy
	786	North Jessicaville
	788	Staceyfort South Dianeshire
	789	
	791	Micheletown
	792	North Brittanyburgh
	793	Port Jasmine
	794	New Sabrina
	795	Lake Charlottestad
##	796	West Rhondamouth
##	797	North Debra
##	798	Villanuevastad
	799	North Jeremyport
	801	Lake John
	802	Courtneyfort
	803	Tammymouth
	804	Lake Vanessa
	805	Lake Amanda
##	806	Mariemouth

	807	Port Douglasborough
	808	Port Aprilville
	810	Lake Faith
	811	Wendyville
##	812	Angelhaven
##	813	New Sean
##	814	Lake Lisa
	815	Valerieland
	816	New Travis
	817	North Samantha
	818	Holderville
	819	Patrickmouth
	820	Lake Deannaborough
	821	Jeffreymouth
	822	Davieshaven
	823	Lake Jessicaville
	824	Hernandezchester
	825	North Kennethside
	827	Williamport
	828	Smithside
	829	Vanessastad
	831	Lake Rhondaburgh
	832	Cunninghamhaven
	833	Robertstown
##	834	South Mark
##	835	New Taylorburgh
##	836	Port Karenfurt
##	837	Carterland
##	838	East Shawn
	839	West Derekmouth
	840	Brandiland
	841	Cervantesshire
	842	North Debrashire
	843	Deannaville
	844	East Christopher
	845	Rickymouth
	846	Port Dennis
	847	Lake Michelle
	848	East Johnport
	849	Sabrinaview
	850	Kristinfurt
##	851	Chapmanland
##	852	North Jonathan
##	853	Port Christina
	854	Juanport
	855	East Mike
	856	North Angelatown
	857	West Steven
	858	Riggsstad
	859	Davidview
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	860	Port Kevinborough
	861	Lawsonshire
	862	Wagnerchester
	863	Daisymouth
	865	Port Jacquelinestad
##	866	New Teresa
##	867	Henryfort
##	868	Lake Joseph
	869	Daviesborough
	870	North Brandon
	871	Adamside
	872	Wademouth
	873	North Raymond
	874	Randolphport
	875	East Troyhaven
	876	Clarkborough
	877	Josephberg
	878	Lake Jenniferton
	880	Ashleymouth
	881	Henryland
		Lake Danielle
	882	
	883	Joshuaburgh
	884	South Jeanneport
	885	New Nathan
	886	Jonesshire
	887	Mariahview
	888	New Julianberg
	889	Randyshire
	890	Philipberg
	891	West Dennis
##	892	Richardshire
##	893	Lake James
	894	Austinborough
	895	Alexandrafort
	896	Melissastad
	897	Gonzalezburgh
	898	Port Jennifer
	899	Chrismouth
	900	Port Beth
	901	West David
	902	Fraziershire
		South Pamela
	904	
	905	North Laurenview
	906	Campbellstad
	907	Port Derekberg
	908	West Andrew
	909	West Randy
	910	South Christopher
##	911	Lake Michellebury
##	912	Zacharyton
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## 913 West James ## 914 Millerview ## 915 Hawkinsbury ## 916 Elizabethport ## 918 Wadestad ## 919 Mauriceshire ## 920 West Arielstad ## 921 Adamsstad ## 923 Blairborough ## 924 New Marcusbury ## 925 Evansville ## 926 Huffmanchester ## 927 New Cynthia # 928 Joshuamouth ## 929 West Benjamin ## 930 Williamsfort ## 931 North Tiffany ## 932 Edwardsport ## 933 Lake Evantown ## 934 South Henry ## 935 Harmonhaven ## 936 West Gregburgh ## 937 Hansenland ## 938 Port Michaelmouth ## 939 Tylerport ## 940 West Lacey ## 941 North Jenniferburgh ## 942 South Davidhaven ## 943 North Charlesbury ## 944 Jonathanland ## 945 North Virginia ## 946 West Tanner ## 947 Jonesmouth ## 948 West Annefort ## 949 West Annefort ## 940 West Annefort ## 941 North Cassie ## 950 East Jason ## 950 East Jason ## 951 North Cassie ## 952 Hintonport ## 953 New James ## 954 North Destiny ## 955 Mclaughlinbury ## 956 West Gabriellamouth ## 957 Alvarezland ## 958 New Julie ## 959 North Frankstad ## 960 Claytonside ## 961 Melanieton Lake Michaelport ## 962 Lake Michaelport ## 963 East Benjaminville ## 964 Garrettborough ## 965 Port Raymondfort			
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## 950 East Jason ## 951 North Cassie ## 952 Hintonport ## 953 New James ## 954 North Destiny ## 955 Mclaughlinbury ## 956 West Gabriellamouth ## 957 Alvarezland ## 958 New Julie ## 959 North Frankstad ## 960 Claytonside ## 961 Melanieton ## 962 Lake Michaelport ## 963 East Benjaminville ## 964 Garrettborough			
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## 952 Hintonport ## 953 New James ## 954 North Destiny ## 955 Mclaughlinbury ## 956 West Gabriellamouth ## 957 Alvarezland ## 958 New Julie ## 959 North Frankstad ## 960 Claytonside ## 961 Melanieton ## 962 Lake Michaelport ## 963 East Benjaminville ## 964 Garrettborough			
## 953 New James ## 954 North Destiny ## 955 Mclaughlinbury ## 956 West Gabriellamouth ## 957 Alvarezland ## 958 New Julie ## 959 North Frankstad ## 960 Claytonside ## 961 Melanieton ## 962 Lake Michaelport ## 963 East Benjaminville ## 964 Garrettborough			
## 954 North Destiny ## 955 Mclaughlinbury ## 956 West Gabriellamouth ## 957 Alvarezland ## 958 New Julie ## 959 North Frankstad ## 960 Claytonside ## 961 Melanieton ## 962 Lake Michaelport ## 963 East Benjaminville ## 964 Garrettborough			
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## 956 West Gabriellamouth ## 957 Alvarezland ## 958 New Julie ## 959 North Frankstad ## 960 Claytonside ## 961 Melanieton ## 962 Lake Michaelport ## 963 East Benjaminville ## 964 Garrettborough			-
## 957 Alvarezland ## 958 New Julie ## 959 North Frankstad ## 960 Claytonside ## 961 Melanieton ## 962 Lake Michaelport ## 963 East Benjaminville ## 964 Garrettborough			
## 958 New Julie ## 959 North Frankstad ## 960 Claytonside ## 961 Melanieton ## 962 Lake Michaelport ## 963 East Benjaminville ## 964 Garrettborough			
<pre>## 959 North Frankstad ## 960 Claytonside ## 961 Melanieton ## 962 Lake Michaelport ## 963 East Benjaminville ## 964 Garrettborough</pre>			
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<pre>## 961</pre>			
<pre>## 962 Lake Michaelport ## 963 East Benjaminville ## 964 Garrettborough</pre>			
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## 964 Garrettborough			
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## 900 Purt Kaymonufort			-
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```
## 966
                      Waltertown
## 967
                     Cameronberg
## 968
                      Kaylashire
                      Fosterside
## 969
## 970
                       Davidstad
## 971
                      Lake Tracy
## 972
                     Taylormouth
## 973
                      Dianaville
## 974
                    Collinsburgh
## 975
                     Port Rachel
## 976
                   South Rebecca
## 977
                 Port Joshuafort
## 978
                    Robinsontown
## 979
                         Beckton
## 980
                  New Frankshire
## 981
                North Derekville
## 982
                     West Sydney
## 983
                    Lake Matthew
## 984
                Lake Zacharyfurt
## 985
                    Lindsaymouth
## 986
                       Sarahland
## 988
                    Michaelshire
## 989
                        Sarafurt
## 990
                    South Denise
## 991
                     North Katie
## 992
                     Mauricefurt
## 993
                     New Patrick
## 994
                    Edwardsmouth
## 995
                    Nicholasland
## 996
                       Duffystad
## 997
                     New Darlene
## 998
                   South Jessica
## 1000
                     Ronniemouth
unique(data[c("Country")])
##
                                                       Country
## 1
                                                       Tunisia
## 2
                                                         Nauru
## 3
                                                   San Marino
## 4
                                                         Italy
## 5
                                                       Iceland
## 6
                                                        Norway
## 7
                                                      Myanmar
## 8
                                                    Australia
## 9
                                                      Grenada
## 10
                                                         Ghana
## 11
                                                         Qatar
## 12
                                                       Burundi
## 13
                                                         Egypt
```

## 14 Bosnia and Herzegovina Barbados Spain ## 15 British Indian Ocean Territory (Chagos Archipelago) ## 20 Russian Federation Rorea Tokelau Monaco M			
## 16			
## 17			
## 18		·	
## 19 British Indian Ocean Territory (Chagos Archipelago) ## 20 Russian Federation ## 24 Korea ## 25 Tokelau ## 27 Tokelau ## 28 Greece ## 29 British Virgin Islands ## 30 Bouvet Island (Bouvetoya) ## 31 Peru ## 32 Aruba ## 33 Maldives ## 34 Senegal ## 35 Dominica ## 36 Luxembourg ## 37 Montenegro ## 38 Ukraine ## 39 Saint Helena ## 40 Liberia ## 43 Turkmenistan ## 44 Turkmenistan ## 45 Niger ## 48 Sori Lanka ## 49 Trinidad and Tobago ## 52 Uhited Kingdom ## 53 Guinea-Bissau ## 54 Micronesia ## 55 Turkey ## 56 Croatia ## 57 Svalbard & Jan Mayen Islands ## 58 Svalbard & Jan Mayen Islands ## 59 Azerbaijan ## 60 Iran ## 60 Saint Vincent and the Grenadines ## 61 Ganda ## 62 Saint Vincent and the Grenadines ## 63 Guinea-Bissau ## 64 Ganda ## 65 Christmas Island ## 66 Cook Islands ## 67 Rawanda ## 68 Turks and Caicos Islands ## 70 Kook Islands ## 71 Gook Islands ## 72 Gook Islands ## 73 Cook Islands ## 75 Gook Islands ## 75 Gook Islands ## 75 Gook Islands ## 76 Cook Islands ## 77 Faroe Islands		-	
## 20 Russian Federation ## 21 Cameroon ## 24 Korea ## 25 Tokelau ## 26 Monaco ## 27 Tokelau ## 28 Greece ## 29 British Virgin Islands ## 30 Bouvet Island (Bouvetoya) ## 31 Peru ## 33 Aruba ## 34 Senegal ## 35 Dominica ## 36 Luxembourg ## 37 Montenegro ## 38 Ukraine ## 40 Liberia ## 40 Liberia ## 44 Trinidad and Tobago ## 48 Frilands ## 49 Trinidad and Tobago ## 53 Guinea-Bissau ## 55 United Kingdom ## 53 Guinea-Bissau ## 55 Turkey ## 56 Croatia ## 57 Tarseel ## 58 Svalbard & Jan Mayen Islands ## 59 Azerbaijan ## 60 Iran ## 60 Iran ## 60 Croatia ## 57 Saint Vincent and the Grenadines ## 64 Bulgaria ## 65 Christmas Island ## 66 Tanada ## 67 Rawada ## 67 Rawada ## 68 Turks and Caicos Islands ## 68 Turks and Caicos Islands ## 73 Cook Islands ## 75 Guatemala ## 75 Guatemala ## 77 Faroe Islands			
## 21			
## 24 ## 25 Tokelau ## 25 Tokelau ## 26 Monaco ## 27 Tuvalu ## 28 Greece ## 30 British Virgin Islands ## 30 Bouvet Island (Bouvetoya) ## 31 Peru ## 33 Maldives ## 34 Senegal ## 35 Montenegro ## 36 Luxembourg ## 37 Montenegro ## 38 Ukraine ## 39 Saint Helena Liberia ## 40 Liberia ## 43 Turkmenistan ## 45 Niger ## 48 Sri Lanka ## 49 Trinidad and Tobago ## 53 Guinea-Bissau ## 54 Micronesia ## 55 Turkey ## 56 Croatia ## 57 Turkey ## 56 Croatia ## 57 Svalbard & Jan Mayen Islands ## 59 Saint Vincent and the Grenadines ## 60 Cranada ## 67 Ramanda ## 63 Christmas Island ## 64 ## 65 Christmas Island ## 66 Canada ## 67 Ramanda ## 67 Ramanda ## 68 Turks and Caicos Islands ## 75 Guatemala ## 75 Guatemala ## 77 Faroe Islands			
## 25 ## 26 ## 26 ## 27 ## 28 ## 29 ## 30 ## 30 ## 30 ## 31 ## 32 ## 33 ## 33 ## 34 ## 35 ## 35 ## 36 ## 37 ## 38 ## 39 ## 39 ## 39 ## 39 ## 43 ## 43 ## 44 ## 43 ## 45 ## 48 ## 55 ## 48 ## 55 ## 48 ## 55 ## 56 ## 52 ## 56 ## 56 ## 56 ## 57 ## 58 ## 58 ## 58 ## 59 ## 58 ## 59 ## 58 ## 59 ## 58 ## 59 ## 58 ## 59 ## 60 ## 60 ## 60 ## 60 ## 60 ## 60 ## 61 ## 62 ## 63 ## 64 ## 66 ## 66 ## 66 ## 66 ## 67 ## 68 ## 68 ## 77 ## 78 ## 78 ## 78 ## 78 ## 77 ## 76 ## 77 ## 77 ## 76 ## 77			
## 26 ## 27 Tuvalu ## 28 Greece ## 29 British Virgin Islands ## 30 Bouvet Island (Bouvetoya) ## 31 Peru ## 32 Aruba ## 33 Maldives ## 34 Senegal ## 35 Dominica ## 36 Luxembourg ## 37 Montenegro ## 38 Ukraine ## 39 Saint Helena ## 40 Liberia ## 43 Turkenistan ## 45 Si Lanka ## 45 Si Lanka ## 49 Trinidad and Tobago ## 52 United Kingdom Guinea-Bissau ## 53 Guinea-Bissau ## 55 Turkey Foratia ## 55 Svalbard & Jan Mayen Islands ## 55 Svalbard & Jan Mayen Islands ## 59 Azerbaijan ## 60 Iran ## 62 Saint Vincent and the Grenadines ## 64 Bulgaria ## 65 Christmas Island ## 66 Canada ## 67 Rwanda ## 68 Turks and Caicos Islands ## 77 Gook Islands ## 75 Guatemala ## 77 Faroe Islands			
## 27 ## 28 ## 29 ## 30 ## 30 ## 31 ## 32 ## 32 ## 33 ## 34 ## 35 ## 35 ## 36 ## 37 ## 38 ## 39 ## 37 ## 40 ## 43 ## 40 ## 43 ## 44 ## 48 ## 49 ## 52 ## 48 ## 49 ## 52 ## 53 ## 54 ## 55 ## 55 ## 55 ## 55 ## 56 ## 57 ## 58 ## 58 ## 59 ## 58 ## 59 ## 62 ## 59 ## 62 ## 66 ## 67 ## 68 ## 68 ## 70 ## 77 ## 76 ## 77 Bouvet Island Bouvet Island Bouvetoya) ## 11 Bouvetoya) ## 29 ## 29 ## 31 ## 44 ## 48 ## 49 ## 48 ## 49 ## 51 ## 52 ## 54 ## 55 ## 55 ## 55 ## 56 ## 57 ## 58 ## 58 ## 59 ## 56 ## 66 ## 67 ## 68 ## 68 ## 67 ## 68 ## 77 ##			
## 28			
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## 30 Bouvet Island (Bouvetoya) ## 31 Peru ## 32 Aruba ## 33 Maldives ## 34 Senegal ## 35 Dominica ## 37 Montenegro ## 38 Ukraine ## 39 Saint Helena ## 40 Liberia ## 43 Turkmenistan ## 45 Niger ## 48 Sri Lanka ## 49 Trinidad and Tobago ## 52 United Kingdom ## 53 Guinea-Bissau ## 54 Micronesia ## 55 Turkey ## 56 Croatia ## 57 Turkey ## 56 Croatia ## 57 Saint Vincent and the Grenadines ## 59 Saint Vincent and the Grenadines ## 60 Canada ## 61 Canada ## 62 Saint Vincent and the Grenadines ## 63 Christmas Island ## 64 Bulgaria ## 65 Christmas Island ## 66 Raanda ## 67 Raanda ## 67 Raanda ## 68 Turks and Caicos Islands ## 70 Norfolk Island ## 77 Gook Islands ## 77 Gook Islands ## 77 Faroe Islands			
## 31			
## 32		· · · · · · · · · · · · · · · · · · ·	
## 33 ## 34			
## 34 ## 35 ## 36 ## 37 ## 37 ## 38 ## 38 ## 39 ## 39 ## 39 ## 40 ## 40 ## 43 ## 44 ## 45 ## 48 ## 49 ## 48 ## 49 ## 52 ## 53 ## 54 ## 55 ## 55 ## 55 ## 56 ## 57 ## 56 ## 57 ## 58 ## 58 ## 59 ## 58 ## 59 ## 58 ## 59 ## 60 ## 59 ## 60 ## 51 ## 60 ## 61 ## 62 ## 63 ## 64 ## 65 ## 65 ## 66 ## 66 ## 67 ## 68 ## 68 ## 68 ## 68 ## 70 ## 70 ## 70 ## 77 ## 76 ## 76 ## 76 ## 77 ## 77 ## 76 ## 77 ## 77 ## 77 ## 77 ## 77 ## 77 ## 77			
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## 36 ## 37 ## 38 ## 39 ## 39 ## 39 ## 40 ## 43 ## 44 ## 45 ## 48 ## 49 ## 48 ## 49 ## 52 ## 53 ## 53 ## 54 ## 55 ## 56 ## 57 ## 58 ## 58 ## 58 ## 59 ## 58 ## 59 ## 60 ## 59 ## 62 ## 62 ## 63 ## 64 ## 65 ## 66 ## 66 ## 66 ## 66 ## 67 ## 68 ## 67 ## 68 ## 68 ## 70 ## 70 ## 77 ## 77 ## 76 ## 77 ## 77			
## 37 ## 38 ## 39 ## 40 ## 40 ## 43 ## 43 ## 45 ## 48 ## 49 ## 49 ## 49 ## 52 ## 53 ## 53 ## 54 ## 55 ## 55 ## 56 ## 57 ## 56 ## 57 ## 58 ## 59 ## 58 ## 59 ## 62 ## 62 ## 62 ## 63 ## 64 ## 65 ## 66 ## 67 ## 66 ## 67 ## 68 ## 67 ## 68 ## 70 ## 70 ## 77 ## 76 ## 76 ## 76 ## 76 Cote d'Ivoire ## 77			
## 38 ## 39 ## 40 ## 40 ## 43 ## 45 ## 48 ## 49 ## 48 ## 52 ## 52 ## 53 ## 54 ## 55 ## 55 ## 56 ## 57 ## 58 ## 58 ## 59 ## 58 ## 59 ## 60 ## 62 ## 62 ## 64 ## 65 ## 64 ## 65 ## 66 ## 66 ## 67 ## 68 ## 68 ## 67 ## 68 ## 68 ## 70 ## 73 ## 76 ## 76 ## 76 ## 76 ## 76 ***Cote d'Ivoire ## 76 ## 76 ***Cote d'Ivoire ## 77 ***Cote d'Ivoire ## 77		•	
## 39 ## 40 ## 43 ## 45 ## 45 ## 48 ## 49 ## Trinidad and Tobago ## 52 ## 53 ## 54 ## 55 ## 55 ## 56 ## 57 ## 58 ## 58 ## 59 ## 58 ## 59 ## 59 ## 60 ## 59 ## 62 ## 64 ## 65 ## 64 ## 65 ## 66 ## 67 ## 68 ## 67 ## 68 ## 67 ## 68 ## 70 ## 68 ## 70 ## 77 ## 75 ## 76 ## 77 ## 76 ## 77 ## 78		•	
## 40 ## 43 ## 45 ## 48 ## 48 ## 49 ## 52 ## 53 ## 54 ## 55 ## 55 ## 56 ## 57 ## 58 ## 58 ## 59 ## 58 ## 59 ## 62 ## 62 ## 62 ## 64 ## 63 ## 65 ## 64 ## 68 ## 67 ## 68 ## 68 ## 70 ## 77 ## 75 ## 76 ## 76 ## 76 ## 77 Liberia ## 77 Trinidad and Tobago ## 57 Guinea-Bissau ## 61 ## 62 ## 62 ## 63 ## 64 ## 65 ## 64 ## 65 ## 65 ## 66 ## 67 ## 67 ## 68 ## 67 ## 77 ## 77 ## 76 ## 77 ## 77 ## 76 ## 77 ## 77 ## 77			
## 43 ## 45 ## 48 ## 49 ## 52 ## 53 ## 53 ## 54 ## 55 ## 56 ## 57 ## 58 ## 58 ## 59 ## 58 ## 59 ## 60 ## 62 ## 62 ## 64 ## 65 ## 66 ## 66 ## 67 ## 68 ## 68 ## 70 ## 68 ## 70 ## 77 ## 76 ## 77 ## 76 ## 76 ## 76 ## 76 ## 76 ## 77 ***Trinidad and Tobago United Kingdom Guinea-Bissau ## 61 ## 62 ## 63 ## 64 ## 65 ## 64 ## 65 ## 66 ## 67 ## 68 ## 70 ## 68 ## 70 ## 73 ## 68 ## 75 ## 76 ## 76 ## 76 ## 77 ## 77 ## 77 ## 77 ## 77 ## 77			
## 45 Niger ## 48 Sri Lanka ## 49 Trinidad and Tobago ## 52 United Kingdom ## 53 Guinea-Bissau ## 54 Micronesia ## 55 Turkey ## 56 Croatia ## 57 Israel ## 58 Svalbard & Jan Mayen Islands ## 59 Azerbaijan ## 60 Iran ## 62 Saint Vincent and the Grenadines ## 64 Bulgaria ## 65 Canada ## 66 Canada ## 67 Rwanda ## 68 Turks and Caicos Islands ## 70 Norfolk Island ## 73 Guatemala ## 75 Guatemala ## 76 Cote d'Ivoire ## 77			
## 48 Sri Lanka ## 49 Trinidad and Tobago ## 52 United Kingdom ## 53 Guinea-Bissau ## 54 Micronesia ## 55 Turkey ## 56 Croatia ## 57 Israel ## 58 Svalbard & Jan Mayen Islands ## 59 Azerbaijan ## 60 Iran ## 62 Saint Vincent and the Grenadines ## 64 Bulgaria ## 65 Christmas Island ## 66 Canada ## 67 Rwanda ## 68 Turks and Caicos Islands ## 70 Norfolk Island ## 73 Cook Islands ## 75 Guatemala ## 76 Cote d'Ivoire ## 77 Faroe Islands			
## 49 Trinidad and Tobago ## 52 United Kingdom ## 53 Guinea-Bissau ## 54 Micronesia ## 55 Turkey ## 56 Croatia ## 57 Israel ## 58 Svalbard & Jan Mayen Islands ## 59 Azerbaijan ## 60 Iran ## 62 Saint Vincent and the Grenadines ## 64 Bulgaria ## 65 Christmas Island ## 66 Canada ## 67 Rwanda ## 68 Turks and Caicos Islands ## 70 Norfolk Island ## 73 Cook Islands ## 75 Guatemala ## 76 Cote d'Ivoire ## 77 Faroe Islands		•	
## 52 United Kingdom ## 53 Guinea-Bissau ## 54 Micronesia ## 55 Turkey ## 56 Croatia ## 57 Israel ## 58 Svalbard & Jan Mayen Islands ## 59 Azerbaijan ## 60 Iran ## 62 Saint Vincent and the Grenadines ## 64 Bulgaria ## 65 Christmas Island ## 66 Canada ## 67 Rwanda ## 68 Turks and Caicos Islands ## 70 Norfolk Island ## 73 Cook Islands ## 75 Guatemala ## 76 Cote d'Ivoire ## 77 Faroe Islands			
## 53 ## 54 ## 55 ## 55 ## 56 ## 57 ## 58 ## 58 ## 59 ## 60 ## 60 ## 62 ## 62 ## 64 ## 65 ## 65 ## 65 ## 66 ## 67 ## 68 ## 67 ## 68 ## 70 ## 73 ## 70 ## 73 ## 76 ## 76 ## 77 Guinea-Bissau ## Micronesia ## Micronesia ## Micronesia ## Micronesia ## Micronesia ## 57 ## 15 ## 16 ## 17 ## 17 ## 17 ## 17 ## 17 ## 18			
<pre>## 54 ## 55 Turkey ## 56 Croatia ## 57 Israel ## 58 Svalbard & Jan Mayen Islands ## 59 Azerbaijan ## 60 Iran ## 62 Saint Vincent and the Grenadines ## 64 Bulgaria ## 65 Christmas Island ## 66 Canada ## 67 Rwanda ## 68 Turks and Caicos Islands ## 70 Norfolk Island ## 73 Cook Islands ## 75 Guatemala ## 76 ## 76 Cote d'Ivoire ## 77</pre>			
<pre>## 55</pre>			
<pre>## 56 ## 57</pre>			
<pre>## 57 ## 58 Svalbard & Jan Mayen Islands ## 59 Azerbaijan ## 60 Iran ## 62 Saint Vincent and the Grenadines ## 64 ## 65 Christmas Island ## 66 Canada ## 67 Rwanda ## 68 Turks and Caicos Islands ## 70 Norfolk Island ## 73 Cook Islands ## 75 Guatemala ## 76 Faroe Islands</pre>		•	
<pre>## 58</pre>			
<pre>## 59 ## 60 ## 62 Saint Vincent and the Grenadines ## 64 ## 65 Christmas Island ## 66 ## 67 Rwanda ## 68 ## 70 Norfolk Island ## 73 Guatemala ## 76 ## 77</pre> Cote d'Ivoire ## 77			
## 60 ## 62 Saint Vincent and the Grenadines ## 64 ## 65 Christmas Island ## 66 Canada ## 67 Rwanda ## 68 Turks and Caicos Islands ## 70 Norfolk Island ## 73 Cook Islands ## 75 Guatemala ## 76 Faroe Islands		•	
<pre>## 62</pre>		5	
<pre>## 64 ## 65 Christmas Island ## 66 Canada ## 67 Rwanda ## 68 Turks and Caicos Islands ## 70 Norfolk Island ## 73 Cook Islands ## 75 Guatemala ## 76 ## 77</pre> Cote d'Ivoire ## 77			
<pre>## 65 ## 66 Canada ## 67 Rwanda ## 68 Turks and Caicos Islands ## 70 Norfolk Island ## 73 Cook Islands ## 75 Guatemala ## 76 ## 77 Faroe Islands</pre>			
<pre>## 66 ## 67 Rwanda ## 68 Turks and Caicos Islands ## 70 Norfolk Island ## 73 Cook Islands ## 75 Guatemala ## 76 ## 77 Cote d'Ivoire ## 77</pre>		<u> </u>	
<pre>## 67 ## 68 ## 70 ## 73 ## 75 ## 76 ## 76 ## 77 Rwanda Turks and Caicos Islands Norfolk Island Cook Islands Guatemala Cote d'Ivoire Faroe Islands</pre>			
<pre>## 68 ## 70 ## 73 ## 75 ## 76 ## 76 ## 77 Turks and Caicos Islands Norfolk Island Cook Islands Guatemala Cote d'Ivoire ## 77</pre> Faroe Islands			
<pre>## 70 ## 73 Cook Islands ## 75 Guatemala ## 76 ## 77 Cote d'Ivoire ## 77</pre>			
<pre>## 73 ## 75 Guatemala ## 76 ## 77 Cook Islands Guatemala Cote d'Ivoire Faroe Islands</pre>			
<pre>## 75 ## 76 ## 77 Guatemala Cote d'Ivoire Faroe Islands</pre>			
## 76 Cote d'Ivoire ## 77 Faroe Islands			
## 77 Faroe Islands			
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##	81	Moldova	
##	82	Nicaragua	
##	83	Montserrat	
##	84	Timor-Leste	
##	86	Puerto Rico	
##	87	Central African Republic	
##	88	Venezuela	
##	90	Wallis and Futuna	
##		Jersey	
##	93	Samoa	
##		Antarctica (the territory South of 60 deg S)	
##		Albania	
##		Hong Kong	
##		Lithuania	
	100	Bangladesh	
	101	Western Sahara	
	102	Serbia	
	104	Czech Republic	
	105	Guernsey	
	106	Tanzania	
	107	Bhutan	
	109	Guinea	
	111	Madagascar	
	112	Lebanon	
	113	Eritrea	
	114	Guyana	
	117	United Arab Emirates	
	118	Martinique	
	119	Somalia	
	122	Benin	
	123	Papua New Guinea	
	124	Uzbekistan	
	125	South Africa	
	127	Hungary	
	128	Falkland Islands (Malvinas) Saint Martin	
	132 133	Cuba	
	134	United States Minor Outlying Islands	
	135	Belize	
	139	Kuwait	
	140	Thailand	
	141	Gibraltan	
	142	Holy See (Vatican City State)	
	147	Netherlands	
	148	Belarus	
	151	New Zealand	
	152	Togo	
	153	Kenya	
	154	Palau	
	156	Cambodia	
		241100424	

##	159	Costa Rica	
##	160	Liechtenstein	
	163	Angola	
	165	Equatorial Guinea	
	166	Mongolia	
	169	Brazil	
	170	Chad	
	171	Portugal	
	172	Malawi	
	174	Singapore	
	176	Kazakhstan	
	179	China	
	181	Vietnam	
	184		
		Mayotte	
	187	Jamaica	
	188	Bahamas	
	190	Algeria	
	191	Fiji	
	193	Argentina	
	195	Philippines	
	197	Suriname	
	199	Guam	
	201	Antigua and Barbuda	
	203	Georgia	
	204	Jordan	
	205	Saudi Arabia	
	210	Sao Tome and Principe	
	212	Cyprus	
	213	Kyrgyz Republic	
	214	Pakistan	
	215	Seychelles	
	218	Mauritania	
	220	Chile	
	221	Poland	
	222	Estonia	
	224	Latvia	
	228	Bahrain	
	229	Colombia	
	230	Brunei Darussalam	
	231	Taiwan	
	233	Saint Pierre and Miquelon	
	238	Finland	
	243	French Southern Territories	
	248	Sierra Leone	
	249	Tajikistan	
	251	Ecuador	
	252	Switzerland	
	255	France	
	265	Malaysia	
##	266	Mauritius	

## 269	Japan	
## 270	Greenland	
## 273	Guadeloupe	
## 274	Belgium	
## 276	Honduras	
## 278	Paraguay	
## 281	French Guiana	
## 282	Northern Mariana Islands	
## 285	American Samoa	
## 286	Austria	
## 287	Tonga	
## 291	New Caledonia	
## 293	United States of America	
## 294	Morocco	
## 296	Macedonia	
## 299	Gabon	
## 304	Uganda	
## 314	Saint Lucia	
## 315	Niue	
## 321	Zambia	
## 322	Congo	
## 324	Pitcairn Islands	
## 326	Anguilla	
## 332	Sweden	
## 339	Indonesia	
## 342	Mexico	
## 344	Haiti	
## 348	Gambia	
## 352	El Salvador	
## 353	Libyan Arab Jamahiriya	
## 355	Saint Barthelemy	
## 356	Reunion	
## 370	Panama	
## 384	Dominican Republic	
## 385	Zimbabwe	
## 394	Swaziland	
## 398	Saint Kitts and Nevis	
## 399	Burkina Faso	
## 411	Heard Island and McDonald Islands	
## 413	Bolivia	
## 417 ## 428	Netherlands Antilles	
## 428	French Polynesia	
## 455 ## 461	Germany	
## 461 ## 463	Malta	
## 463 ## 464	Sudan	
## 464 ## 405	Lao People's Democratic Republic	
## 495 ## 500	Isle of Man	
## 500 ## 502	Macao	
## 502 ## 504	United States Virgin Islands	
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```
## 506
                                                         Mali
## 508
                                                      Romania
## 509
                                              Cayman Islands
## 521
                                                     Ethiopia
## 535
                                                     Uruguay
## 558
                                                      Comoros
## 562
                                                      Vanuatu
## 566
                                                        Nepal
## 571
                                                        Yemen
## 572
                                                        India
## 621
                                                  Cape Verde
## 635
                                                     Slovenia
## 643
                                                      Denmark
## 651
                                        Syrian Arab Republic
## 662
                                                      Andorra
## 710
                                                      Namibia
## 718
                                 Slovakia (Slovak Republic)
## 729
                                                      Armenia
## 755
              South Georgia and the South Sandwich Islands
## 786
                                                     Kiribati
## 809
                                            Marshall Islands
## 931
                                                      Bermuda
## 935
                                                  Mozambique
## 946
                                                      Lesotho
#Feature selection
data f <- data[c('Daily.Time.Spent.on.Site', 'Age', 'Area.Income',</pre>
'Daily.Internet.Usage', 'Gender', 'Clicked.on.Ad')]
#Previewing dataset
head(data_f)
##
     Daily.Time.Spent.on.Site Age Area.Income Daily.Internet.Usage Gender
## 1
                         68.95 35
                                       61833.90
                                                               256.09
                                                                            0
## 2
                                                                            1
                         80.23 31
                                       68441.85
                                                               193.77
## 3
                         69.47 26
                                       59785.94
                                                                            0
                                                               236.50
## 4
                         74.15
                                29
                                       54806.18
                                                               245.89
                                                                            1
## 5
                         68.37
                                35
                                      73889.99
                                                                            0
                                                               225.58
## 6
                         59.99 23
                                       59761.56
                                                               226.74
                                                                            1
##
     Clicked.on.Ad
## 1
## 2
                  0
                  0
## 3
## 4
                  0
## 5
                  0
## 6
                  0
#Displaying the structure of our dataframe
str(data)
## 'data.frame':
                     1000 obs. of 12 variables:
## $ Daily.Time.Spent.on.Site: num 69 80.2 69.5 74.2 68.4 ...
```

```
## $ Age
                           : int 35 31 26 29 35 23 33 48 30 20 ...
## $ Area.Income
                          : num 61834 68442 59786 54806 73890 ...
## $ Daily.Internet.Usage : num 256 194 236 246 226 ...
## $ Ad.Topic.Line : chr "Cloned 5thgeneration orchestration"
"Monitored national standardization" "Organic bottom-line service-desk"
"Triple-buffered reciprocal time-frame" ...
                                  "Wrightburgh" "West Jodi" "Davidton"
## $ City
                          : chr
"West Terrifurt" ...
## $ Gender
                          : int 0101010111...
## $ Country
                          : chr "Tunisia" "Nauru" "San Marino" "Italy"
                                 "2016" "2016" "2016" "2016" ...
## $ Year
                          : chr
                          : chr "03" "04" "03" "01" ...
## $ Month
                          : chr "27" "04" "13" "10" ...
## $ Day
## $ Clicked.on.Ad
                          : Factor w/ 2 levels "0","1": 1 1 1 1 1 1 2 1
```

Normalizing our data

```
#Normalization function
normalize <- function(x) {</pre>
return ((x - min(x)) / (max(x) - min(x))) }
#Normalizing the data
data_norm <- as.data.frame(lapply(data_f[,1:5], normalize))</pre>
#Previewing the dataset
head(data_norm)
     Daily.Time.Spent.on.Site Age Area.Income Daily.Internet.Usage
##
Gender
## 1
                    0.6178820 0.3809524
                                          0.7304725
                                                                0.9160310
0
## 2
                    0.8096209 0.2857143
                                          0.8313752
                                                                0.5387456
1
## 3
                    0.6267211 0.1666667
                                                                0.7974331
                                          0.6992003
0
## 4
                    0.7062723 0.2380952
                                          0.6231599
                                                                0.8542802
1
## 5
                    0.6080231 0.3809524
                                                                0.7313234
                                          0.9145678
0
## 6
                    0.4655788 0.0952381
                                          0.6988280
                                                                0.7383460
1
```

Splitting our dataset

```
set.seed(1234)
#random selection of 70% data.
ad_data <- sample(1:nrow(data_norm), size=nrow(data_norm)*0.7, replace = FALSE)

train <- data_f[ad_data,]
test <- data_f[-ad_data,]</pre>
```

```
train_label <- data_f[ad_data,6]
test_label <-data_f[-ad_data,6]</pre>
```

Building the model

```
#Installing class packages required
#install.packages("class", dependencies = TRUE)
#Loading the libraries required
library("class")
library("caret")
## Loading required package: lattice
library("kernlab")
##
## Attaching package: 'kernlab'
## The following object is masked from 'package:ggplot2':
##
##
       alpha
library("e1071")
##
## Attaching package: 'e1071'
## The following objects are masked from 'package:PerformanceAnalytics':
##
##
       kurtosis, skewness
#Checking the number of observations
NROW(train_label)
## [1] 700
# Instantiating the KNN function
knn <- knn(train=train, test=test, cl=train_label, k=26)</pre>
confusionMatrix(table(knn,test_label))
## Confusion Matrix and Statistics
##
      test label
##
## knn 0 1
##
     0 110 53
     1 42 95
##
##
##
                  Accuracy : 0.6833
##
                    95% CI: (0.6274, 0.7356)
       No Information Rate: 0.5067
##
```

```
P-Value [Acc > NIR] : 4.241e-10
##
##
##
                     Kappa: 0.3659
##
   Mcnemar's Test P-Value: 0.3049
##
##
##
               Sensitivity: 0.7237
               Specificity: 0.6419
##
            Pos Pred Value: 0.6748
##
##
            Neg Pred Value: 0.6934
                Prevalence: 0.5067
##
##
            Detection Rate: 0.3667
##
      Detection Prevalence: 0.5433
##
         Balanced Accuracy: 0.6828
##
          'Positive' Class : 0
##
##
```

Challenging the solution using SVM

```
intrain <- createDataPartition(y = data f$Clicked.on.Ad, p= 0.7, list =
FALSE)
train <- data_f[intrain,]</pre>
test <- data_f[-intrain,]</pre>
#Ensuring the variabke to be predicted is categorical
train[["Clicked.on.Ad"]] = factor(train[["Clicked.on.Ad"]])
#Train control to train data on different algorithm
tr_ctl <- trainControl(method = "repeatedcv", number = 10, repeats = 5)</pre>
svm_Linear <- train(Clicked.on.Ad ~., data = train, method = "svmLinear",</pre>
trControl=tr_ctl, preProcess = c("center", "scale"), tuneLength = 10)
test_pred <- predict(svm_Linear, newdata = test)</pre>
confusionMatrix(table(test_pred, test$Clicked.on.Ad))
## Confusion Matrix and Statistics
##
##
## test_pred 0
##
           0 146
                   7
##
               4 143
##
##
                  Accuracy : 0.9633
                     95% CI: (0.9353, 0.9816)
##
##
       No Information Rate: 0.5
       P-Value [Acc > NIR] : <2e-16
##
##
##
                      Kappa: 0.9267
##
```

```
Mcnemar's Test P-Value: 0.5465
##
##
               Sensitivity: 0.9733
##
               Specificity: 0.9533
            Pos Pred Value : 0.9542
##
##
            Neg Pred Value : 0.9728
##
                Prevalence : 0.5000
            Detection Rate: 0.4867
##
##
      Detection Prevalence : 0.5100
##
         Balanced Accuracy : 0.9633
##
##
          'Positive' Class : 0
##
```

SVM has a much higher accuracy at 96% as compared to KNN at 68%, thus it is a better model