Advertising Analysis

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2022-07-15

# R Programming Exploratory Data Analysis

## 1. Defining the Question

**a) Specifying the Data Analytic Question**

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 your services as a Data Science Consultant to help her identify which individuals are most likely to click on her ads.

**b) Defining the Metric for Success**

1.Exhaustively apply the exploratory data analysis approaches while defining the question, the metric for success, the context, experimental design taken and the appropriateness of the available data to answer the given question.

2.Perform univariate analysis by calculating and interpreting measures of central tendency for the set of data.

3.Exhaustively perform bivariate analysis by creating relevant visualizations

**c) Understanding the context**

Perform Exploratory Data Analysis for the give data set <http://bit.ly/IPAdvertisingData>

**d) Experimental design taken**

1.Reading and checking our data

2.Clean data by finding and dealing with outliers, anomalies, and missing data within the dataset.

3.Perform univariate and bivariate analysis.

4.From your insights provide a conclusion and recommendation.

**e) Appropriateness of the available data**

The dataset has appropriate columns and rows to answer the questions. The data is relevant for our analysis.

## 2. Importing Libraries

# install.package("data.table") # install package data.table to work with data tables  
library(data.table) # load package  
# install.package("tidyverse") # install packages to work with data frame - extends into visualization  
library(tidyverse)

## ── Attaching packages ─────────────────────────────────────── tidyverse 1.3.2 ──  
## ✔ ggplot2 3.3.6 ✔ purrr 0.3.4  
## ✔ tibble 3.1.7 ✔ dplyr 1.0.9  
## ✔ tidyr 1.2.0 ✔ stringr 1.4.0  
## ✔ readr 2.1.2 ✔ forcats 0.5.1  
## ── Conflicts ────────────────────────────────────────── tidyverse\_conflicts() ──  
## ✖ dplyr::between() masks data.table::between()  
## ✖ dplyr::filter() masks stats::filter()  
## ✖ dplyr::first() masks data.table::first()  
## ✖ dplyr::lag() masks stats::lag()  
## ✖ dplyr::last() masks data.table::last()  
## ✖ purrr::transpose() masks data.table::transpose()

## 3. Loading our dataset

# Loading our dataset into our environment  
  
ad <- fread('http://bit.ly/IPAdvertisingData')

## 4. Reading our dataset

# Checking our top rows  
  
head(ad)

## Daily Time Spent on Site Age Area Income Daily Internet Usage  
## 1: 68.95 35 61833.90 256.09  
## 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 59761.56 226.74  
## Ad Topic Line City Male Country  
## 1: Cloned 5thgeneration orchestration Wrightburgh 0 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  
## 5: Robust logistical utilization South Manuel 0 Iceland  
## 6: Sharable client-driven software Jamieberg 1 Norway  
## Timestamp Clicked on Ad  
## 1: 2016-03-27 00:53:11 0  
## 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 0

# Checking our bottom rows  
  
tail(ad)

## Daily Time Spent on Site Age Area Income Daily Internet Usage  
## 1: 43.70 28 63126.96 173.01  
## 2: 72.97 30 71384.57 208.58  
## 3: 51.30 45 67782.17 134.42  
## 4: 51.63 51 42415.72 120.37  
## 5: 55.55 19 41920.79 187.95  
## 6: 45.01 26 29875.80 178.35  
## Ad Topic Line City Male  
## 1: Front-line bifurcated ability Nicholasland 0  
## 2: Fundamental modular algorithm Duffystad 1  
## 3: Grass-roots cohesive monitoring New Darlene 1  
## 4: Expanded intangible solution South Jessica 1  
## 5: Proactive bandwidth-monitored policy West Steven 0  
## 6: Virtual 5thgeneration emulation Ronniemouth 0  
## Country Timestamp Clicked on Ad  
## 1: Mayotte 2016-04-04 03:57:48 1  
## 2: Lebanon 2016-02-11 21:49:00 1  
## 3: Bosnia and Herzegovina 2016-04-22 02:07:01 1  
## 4: Mongolia 2016-02-01 17:24:57 1  
## 5: Guatemala 2016-03-24 02:35:54 0  
## 6: Brazil 2016-06-03 21:43:21 1

# Checking the shape of our data  
  
dim(ad)

## [1] 1000 10

We have 1000 rows and 10 columns

# Checking the class/datatypes  
  
str(ad)

## Classes 'data.table' and '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" ...  
## $ City : chr "Wrightburgh" "West Jodi" "Davidton" "West Terrifurt" ...  
## $ Male : int 0 1 0 1 0 1 0 1 1 1 ...  
## $ Country : chr "Tunisia" "Nauru" "San Marino" "Italy" ...  
## $ Timestamp : POSIXct, format: "2016-03-27 00:53:11" "2016-04-04 01:39:02" ...  
## $ Clicked on Ad : int 0 0 0 0 0 0 0 1 0 0 ...  
## - attr(\*, ".internal.selfref")=<externalptr>

# checking the attributes of our dataset  
  
class(ad)

## [1] "data.table" "data.frame"

## 5. Data Cleaning

# Sum of null values in each column using the function colSums()  
  
colSums(is.na(ad))

## Daily Time Spent on Site Age Area Income   
## 0 0 0   
## Daily Internet Usage Ad Topic Line City   
## 0 0 0   
## Male Country Timestamp   
## 0 0 0   
## Clicked on Ad   
## 0

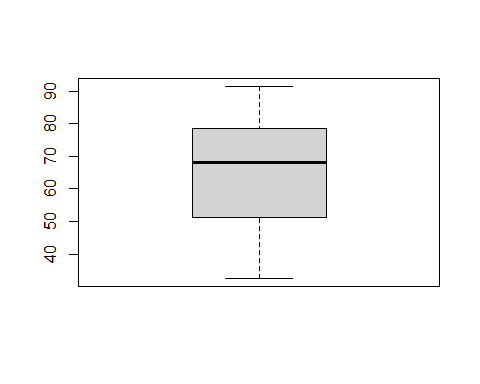
**There are no missing values in our dataset**

# Now lets find the duplicated rows in the dataset   
# and assign to a variable duplicated\_rows below  
  
duplicated\_rows <- ad[duplicated(ad),]  
  
# Lets print out the variable duplicated\_rows and see these duplicated rows   
  
duplicated\_rows

## Empty data.table (0 rows and 10 cols): Daily Time Spent on Site,Age,Area Income,Daily Internet Usage,Ad Topic Line,City...

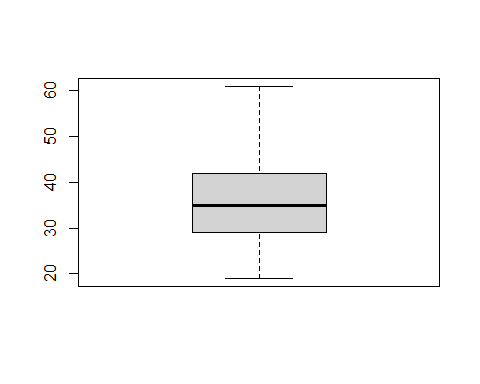
**There are no duplicated rows**

# Checking for outliers in the Daily Time Spent on Site column  
  
boxplot(ad$'Daily Time Spent on Site')



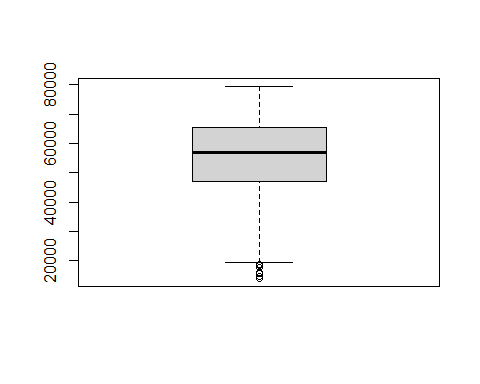
**There are no outliers in the ‘Daily Time Spent on Site’ column**

# Checking for outliers in the age column  
  
boxplot(ad$'Age')



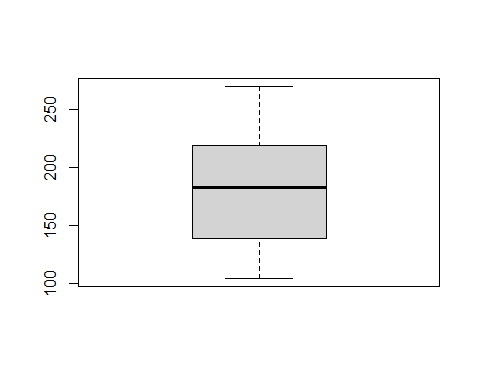
**There are no outliers in the age column**

# Checking for outliers in the Area Income column  
  
boxplot(ad$'Area Income')



**There are outliers in the ‘area income’ column. However we will not be dropping them since it is true representation of individual’s income**

# Checking for outliers in the Daily Internet Usage column  
  
boxplot(ad$'Daily Internet Usage')



**There are no outliers in the ‘Daily Internet usage’ column**

# Exploratory Data Analysis

## 6. Univariate Analysis

# Summary statistics of our data  
  
summary(ad)

## Daily Time Spent on Site Age Area Income Daily Internet Usage  
## Min. :32.60 Min. :19.00 Min. :13996 Min. :104.8   
## 1st Qu.:51.36 1st Qu.:29.00 1st Qu.:47032 1st Qu.:138.8   
## Median :68.22 Median :35.00 Median :57012 Median :183.1   
## Mean :65.00 Mean :36.01 Mean :55000 Mean :180.0   
## 3rd Qu.:78.55 3rd Qu.:42.00 3rd Qu.:65471 3rd Qu.:218.8   
## Max. :91.43 Max. :61.00 Max. :79485 Max. :270.0   
## Ad Topic Line City Male Country   
## Length:1000 Length:1000 Min. :0.000 Length:1000   
## Class :character Class :character 1st Qu.:0.000 Class :character   
## Mode :character Mode :character Median :0.000 Mode :character   
## Mean :0.481   
## 3rd Qu.:1.000   
## Max. :1.000   
## Timestamp Clicked on Ad  
## Min. :2016-01-01 02:52:10.00 Min. :0.0   
## 1st Qu.:2016-02-18 02:55:42.00 1st Qu.:0.0   
## Median :2016-04-07 17:27:29.50 Median :0.5   
## Mean :2016-04-10 10:34:06.64 Mean :0.5   
## 3rd Qu.:2016-05-31 03:18:14.00 3rd Qu.:1.0   
## Max. :2016-07-24 00:22:16.00 Max. :1.0

**Mean**

mean(ad$"Daily Time Spent on Site")

## [1] 65.0002

**The average time spent on the site is 65 minutes.**

mean(ad$"Age")

## [1] 36.009

**The average age of repondents is 36 years.**

mean(ad$"Area Income")

## [1] 55000

**The average income of repondents is 55000**

mean(ad$"Daily Internet Usage")

## [1] 180.0001

**The average internet usage is 180.0 units**

**Mode**

# Unfotunately, R does not have a standard in-built function to calculate mode so we have to build one  
# We create the mode function that will perform our mode operation for us  
  
getmode <- function(v) {  
 uniqv <- unique(v)  
 uniqv[which.max(tabulate(match(v, uniqv)))]}

getmode(ad$Age)

## [1] 31

**Most frequent age is 31 years**

getmode(ad$`Daily Time Spent on Site`)

## [1] 62.26

**Most frequent daily time spent is 62.26 minutes**

getmode(ad$`Area Income`)

## [1] 61833.9

**Most common area income is 61833.9**

getmode(ad$`Daily Internet Usage`)

## [1] 167.22

**Most frequent units used for daily internet usage is 167.22.**

**Median** **The median is the middle number in a sorted, ascending or descending list of numbers**

median(ad$`Daily Time Spent on Site`)

## [1] 68.215

median(ad$Age)

## [1] 35

median(ad$`Area Income`)

## [1] 57012.3

median(ad$`Daily Internet Usage`)

## [1] 183.13

**Min and Max Values/Otherwise known as Range**

**Showing the highest and the least values in our numerical data**

range(ad$Age)

## [1] 19 61

range(ad$`Daily Time Spent on Site`)

## [1] 32.60 91.43

range(ad$`Area Income`)

## [1] 13996.5 79484.8

range(ad$`Daily Internet Usage`)

## [1] 104.78 269.96

**Quantiles**

Getting the first and the third quantile together with the range and the median using the quantile() function

quantile(ad$Age)

## 0% 25% 50% 75% 100%   
## 19 29 35 42 61

quantile(ad$`Daily Time Spent on Site`)

## 0% 25% 50% 75% 100%   
## 32.6000 51.3600 68.2150 78.5475 91.4300

quantile(ad$`Area Income`)

## 0% 25% 50% 75% 100%   
## 13996.50 47031.80 57012.30 65470.64 79484.80

quantile(ad$`Daily Internet Usage`)

## 0% 25% 50% 75% 100%   
## 104.7800 138.8300 183.1300 218.7925 269.9600

**Standard Deviation**

A standard deviation (or σ) is a measure of how dispersed the data is in relation to the mean. Low standard deviation means data are clustered around the mean, and high standard deviation indicates data are more spread out.

sd(ad$`Daily Time Spent on Site`)

## [1] 15.85361

sd(ad$Age)

## [1] 8.785562

sd(ad$`Area Income`)

## [1] 13414.63

sd(ad$`Daily Internet Usage`)

## [1] 43.90234

**Variance**

The variance is a numerical measure of how the data values is dispersed around the mean.

var(ad$`Daily Time Spent on Site`)

## [1] 251.3371

var(ad$Age)

## [1] 77.18611

var(ad$`Area Income`)

## [1] 179952406

var(ad$`Daily Internet Usage`)

## [1] 1927.415

**Frequencies**

# Gender Frequency Table  
# 0 for not male while 1 is male  
  
gender = table(ad$Male)  
gender

##   
## 0 1   
## 519 481

**519 respondents are not Male while 481 are male**

# city Frequency Table  
  
city = table(ad$City)  
  
# Arranging cities from the most frequent and displaying the first 6 rows   
  
highestcity <- sort(city, decreasing = TRUE)  
head(highestcity)

##   
## Lisamouth Williamsport Benjaminchester East John East Timothy   
## 3 3 2 2 2   
## Johnstad   
## 2

# country Frequency Table  
  
country = table(ad$Country)  
  
# Arranging countries from the least frequent and displaying the first 6 rows   
  
countries <- sort(country, increasing = TRUE)  
head(countries)

##   
## Aruba   
## 1   
## Bermuda   
## 1   
## British Indian Ocean Territory (Chagos Archipelago)   
## 1   
## Cape Verde   
## 1   
## Germany   
## 1   
## Jordan   
## 1

# clicked on ad Frequency Table  
  
clickad = table(ad$`Clicked on Ad`)  
clickad

##   
## 0 1   
## 500 500

# clicked on ad Frequency Table  
  
clickad = table(ad$`Clicked on Ad`)  
clickad

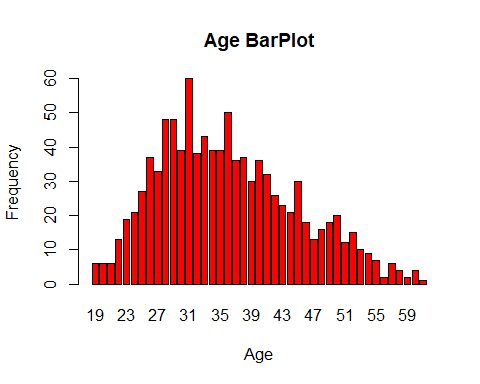
##   
## 0 1   
## 500 500

**Half of the respondents clicked on ad**

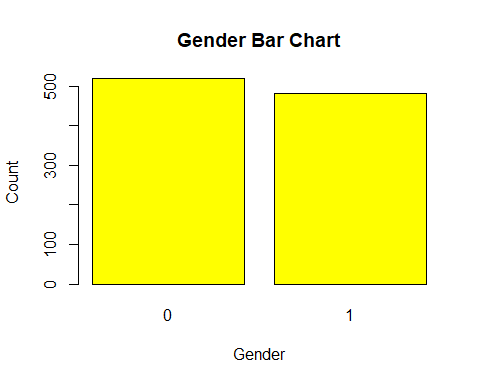
**Barplots**

The box plot of an observation variable is a graphical representation based on its quantiles, as well as its smallest and largest values. It attempts to provide a visual shape of the data distribution.

# Fits we get the frequency distribution table  
  
age <- table(ad$Age)  
  
# Then we plot a bar chart   
  
barplot(age, xlab ='Age', ylab ='Frequency', main ='Age BarPlot', col = 'red')

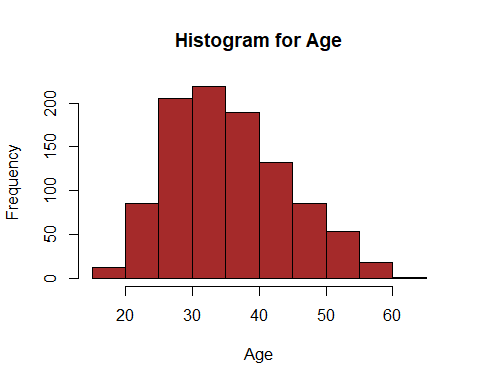


# Gender barplot  
  
barplot(gender, xlab = 'Gender', ylab = 'Count', main = 'Gender Bar Chart', col = "yellow")



**Histograms**

# Plot a histogram for the age column  
  
hist(ad$Age, xlab = 'Age', main = 'Histogram for Age', col = 'brown')



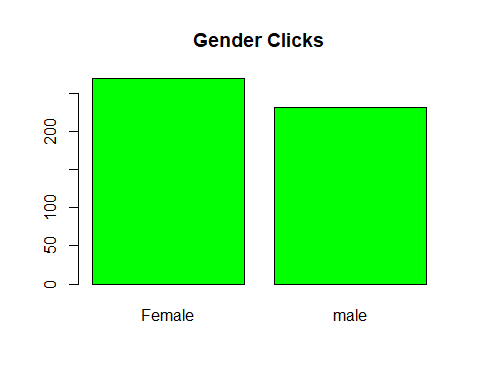
## 7. BiVariate Analysis\*\*

**Which Gender clicked the most ads**

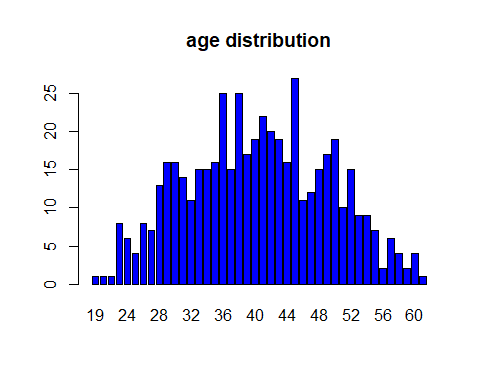
# Creating a dataframe for those who clicked the ad  
  
clicked <- ad[ad$'Clicked on Ad'==1,]  
head(clicked)

## Daily Time Spent on Site Age Area Income Daily Internet Usage  
## 1: 66.00 48 24593.33 131.76  
## 2: 47.64 49 45632.51 122.02  
## 3: 69.57 48 51636.92 113.12  
## 4: 42.95 33 30976.00 143.56  
## 5: 63.45 23 52182.23 140.64  
## 6: 55.39 37 23936.86 129.41  
## Ad Topic Line City Male  
## 1: Reactive local challenge Port Jefferybury 1  
## 2: Centralized neutral neural-net West Brandonton 0  
## 3: Centralized content-based focus group West Katiefurt 1  
## 4: Grass-roots coherent extranet West William 0  
## 5: Persistent demand-driven interface New Travistown 1  
## 6: Customizable multi-tasking website West Dylanberg 0  
## Country Timestamp Clicked on Ad  
## 1: Australia 2016-03-07 01:40:15 1  
## 2: Qatar 2016-03-16 20:19:01 1  
## 3: Egypt 2016-06-03 01:14:41 1  
## 4: Barbados 2016-03-24 09:31:49 1  
## 5: Spain 2016-03-09 03:41:30 1  
## 6: Palestinian Territory 2016-01-30 19:20:41 1

genderclicks<- table(clicked$Male)  
label<- c("Female","male")  
barplot(genderclicks,names.arg=label,main="Gender Clicks", col = 'green')



ageDist<- table(clicked$Age)  
barplot(ageDist,main="age distribution", col = 'blue')



**Covariance**

# We can find the covariance between age and the daily time spent on the site  
  
age <- ad$Age  
time <- ad$"Daily Time Spent on Site"  
  
cov(age, time)

## [1] -46.17415

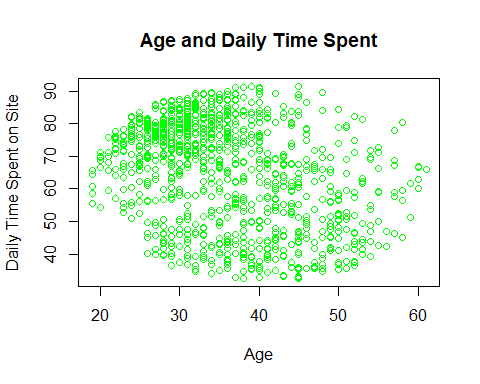
**There is a negative covariance between age and the daily time spent on the site which means that the older a person is, the less time they spend on the site daily.**

# We can find the covariance between age and the internet units  
  
age <- ad$Age  
units <- ad$`Daily Internet Usage`  
  
cov(age, units)

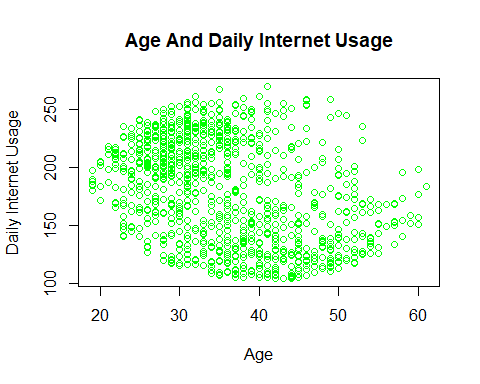
## [1] -141.6348

**There is a negative covariance between age and the daily internet usage on the site which means that the older a person gets, the less time they spend on daily internet usage.**

# Scatter plot showing distribution of age and time spent on site  
  
plot(age, time, xlab = 'Age', ylab = 'Daily Time Spent on Site', main = 'Age and Daily Time Spent', col = 'green')



# Scatter plot showing distribution of age and Internet usage  
  
plot(age, units, xlab = 'Age', ylab = 'Daily Internet Usage', main = 'Age And Daily Internet Usage', col = "green")



**Observations**

1. There were more females than males in our data.
2. The data had 500 individuals who clicked on the ads while 500 individuals did not click on the ads.
3. Czech Republic and France both had the highest number of respondents.
4. The average area income is 55000.
5. The average age of most audience is 36 years with most of the audience being around the age of 31.
6. Lisamouth and Williamsport cities both had the highest number of individuals (3) in the dataset.
7. There are more females visiting the site compared to males as well as clicking the ads.

## 8. Modeling (Supervised Learning)

# We first preview our data  
  
head(ad)

## Daily Time Spent on Site Age Area Income Daily Internet Usage  
## 1: 68.95 35 61833.90 256.09  
## 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 59761.56 226.74  
## Ad Topic Line City Male Country  
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## 3: Organic bottom-line service-desk Davidton 0 San Marino  
## 4: Triple-buffered reciprocal time-frame West Terrifurt 1 Italy  
## 5: Robust logistical utilization South Manuel 0 Iceland  
## 6: Sharable client-driven software Jamieberg 1 Norway  
## Timestamp Clicked on Ad  
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## 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 0

# Applying the lm() function.  
  
multiple\_lm <- lm(`Clicked on Ad` ~ ., ad)

# Generating the anova table  
  
anova(multiple\_lm)

## Warning in anova.lm(multiple\_lm): ANOVA F-tests on an essentially perfect fit  
## are unreliable

## Analysis of Variance Table  
##   
## Response: Clicked on Ad  
## Df Sum Sq Mean Sq F value Pr(>F)  
## `Daily Time Spent on Site` 1 139.920 139.920 NaN NaN  
## Age 1 16.793 16.793 NaN NaN  
## `Area Income` 1 13.721 13.721 NaN NaN  
## `Daily Internet Usage` 1 35.372 35.372 NaN NaN  
## `Ad Topic Line` 995 44.195 0.044 NaN NaN  
## Residuals 0 0.000 NaN

# Then performing our prediction   
  
pred2 <- predict(multiple\_lm, ad)

## Warning in predict.lm(multiple\_lm, ad): prediction from a rank-deficient fit may  
## be misleading

# Printing out our result  
  
pred2

## 1 2 3 4 5   
## -1.106892e-13 -1.398881e-14 -1.176836e-14 -2.220446e-14 2.775558e-15   
## 6 7 8 9 10   
## -2.331468e-15 -2.553513e-15 1.000000e+00 -4.274359e-15 -1.807582e-15   
## 11 12 13 14 15   
## 1.000000e+00 -2.530962e-15 1.000000e+00 -2.720046e-15 1.000000e+00   
## 16 17 18 19 20   
## 1.000000e+00 1.000000e+00 -1.998401e-15 1.000000e+00 1.000000e+00   
## 21 22 23 24 25   
## -4.607426e-15 -2.227385e-15 1.000000e+00 -1.595946e-15 1.000000e+00   
## 26 27 28 29 30   
## -3.608225e-15 1.000000e+00 1.000000e+00 1.000000e+00 -2.553513e-15   
## 31 32 33 34 35   
## 6.661338e-16 -3.330669e-15 1.000000e+00 1.000000e+00 1.000000e+00   
## 36 37 38 39 40   
## -2.164935e-15 1.000000e+00 -1.110223e-15 1.000000e+00 1.000000e+00   
## 41 42 43 44 45   
## -2.831069e-15 -3.386180e-15 -2.220446e-15 -3.053113e-15 -1.734723e-15   
## 46 47 48 49 50   
## 1.000000e+00 -2.886580e-15 -1.276756e-15 1.000000e+00 1.000000e+00   
## 51 52 53 54 55   
## -4.551914e-15 -1.776357e-15 1.000000e+00 1.000000e+00 1.000000e+00   
## 56 57 58 59 60   
## -2.109424e-15 1.000000e+00 1.000000e+00 -3.302913e-15 1.000000e+00   
## 61 62 63 64 65   
## -4.385381e-15 -6.661338e-16 -2.220446e-16 -3.552714e-15 1.000000e+00   
## 66 67 68 69 70   
## -2.997602e-15 1.000000e+00 1.000000e+00 -2.248202e-15 1.000000e+00   
## 71 72 73 74 75   
## 1.000000e+00 -2.303713e-15 1.000000e+00 1.000000e+00 1.000000e+00   
## 76 77 78 79 80   
## -3.799044e-15 1.000000e+00 -5.107026e-15 1.000000e+00 1.000000e+00   
## 81 82 83 84 85   
## -2.720046e-15 -4.662937e-15 1.000000e+00 1.000000e+00 -2.220446e-15   
## 86 87 88 89 90   
## 1.000000e+00 -4.551914e-15 1.000000e+00 1.000000e+00 1.000000e+00   
## 91 92 93 94 95   
## 1.000000e+00 1.000000e+00 -5.662137e-15 1.000000e+00 1.000000e+00   
## 96 97 98 99 100   
## -4.329870e-15 1.000000e+00 1.000000e+00 1.000000e+00 8.881784e-16   
## 101 102 103 104 105   
## 1.000000e+00 -4.884981e-15 -2.376571e-15 -4.440892e-15 -3.400058e-16   
## 106 107 108 109 110   
## -2.164935e-15 -3.330669e-15 1.000000e+00 1.000000e+00 -3.330669e-15   
## 111 112 113 114 115   
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## 901 902 903 904 905   
## 1.000000e+00 1.000000e+00 1.000000e+00 -2.609024e-15 -3.885781e-15   
## 906 907 908 909 910   
## -2.720046e-15 1.000000e+00 -2.567391e-15 1.000000e+00 -2.498002e-15   
## 911 912 913 914 915   
## 1.000000e+00 1.000000e+00 1.000000e+00 -2.872702e-15 1.000000e+00   
## 916 917 918 919 920   
## 1.000000e+00 1.000000e+00 -2.525757e-15 -2.220446e-15 -3.441691e-15   
## 921 922 923 924 925   
## -2.164935e-15 1.000000e+00 1.000000e+00 1.000000e+00 1.000000e+00   
## 926 927 928 929 930   
## 1.000000e+00 -3.483325e-15 -3.774758e-15 -3.219647e-15 1.000000e+00   
## 931 932 933 934 935   
## -3.497203e-15 1.000000e+00 1.000000e+00 1.000000e+00 -3.719247e-15   
## 936 937 938 939 940   
## -3.497203e-15 1.000000e+00 1.000000e+00 1.000000e+00 -3.552714e-15   
## 941 942 943 944 945   
## 1.000000e+00 1.000000e+00 1.000000e+00 1.000000e+00 1.000000e+00   
## 946 947 948 949 950   
## -3.330669e-15 -3.996803e-15 1.000000e+00 1.000000e+00 1.000000e+00   
## 951 952 953 954 955   
## 1.000000e+00 1.000000e+00 1.000000e+00 1.000000e+00 -4.662937e-15   
## 956 957 958 959 960   
## 1.000000e+00 1.000000e+00 -4.218847e-15 -3.386180e-15 -1.831868e-15   
## 961 962 963 964 965   
## 1.000000e+00 -1.054712e-15 -3.053113e-15 -3.053113e-15 -2.248202e-15   
## 966 967 968 969 970   
## 1.000000e+00 1.000000e+00 -2.886580e-15 1.000000e+00 1.000000e+00   
## 971 972 973 974 975   
## 1.000000e+00 1.000000e+00 1.000000e+00 -2.775558e-15 1.000000e+00   
## 976 977 978 979 980   
## 1.000000e+00 1.000000e+00 1.000000e+00 -2.886580e-15 -2.720046e-15   
## 981 982 983 984 985   
## 1.000000e+00 -3.330669e-15 1.000000e+00 -3.330669e-15 -1.776357e-15   
## 986 987 988 989 990   
## 1.000000e+00 -2.774473e-15 1.000000e+00 -4.551914e-15 -2.442491e-15   
## 991 992 993 994 995   
## 1.000000e+00 1.000000e+00 1.000000e+00 -2.275957e-15 1.000000e+00   
## 996 997 998 999 1000   
## 1.000000e+00 1.000000e+00 1.000000e+00 -3.108624e-15 1.000000e+00

**Cross Validation**

# Cross Validation   
  
set.seed(42)  
  
multiple\_lm2 <- train(`Clicked on Ad` ~ ., ad,  
 method = "lm",   
 trControl = trainControl(method = "cv",   
 number = 10,   
 verboseIter = FALSE))  
summary(multiple\_lm2)  
  
multiple\_lm2

# Once we have trained our model, we can directly use this train object as input to the predict method:  
  
pred3 <- predict(multiple\_lm2, ad)  
  
error <- pred3 - diamonds$price  
  
rmse\_xval <- sqrt(mean(error^2)) ## xval RMSE  
  
rmse\_xval  
  
# Console outcome Warning: prediction from a rank-deficient fit may be misleadingWarning: longer object length is not a multiple of shorter object length[1] 5601.632

**RMSE OF 5601.632. A high RMSE show low accuracy**

library(ggplot2)

library(lattice)

library(caret)

##   
## Attaching package: 'caret'

## The following object is masked from 'package:purrr':  
##   
## lift

library(mlbench)

**SVM**

# Splitting our data  
  
intrain <- createDataPartition(y = ad$`Area Income`, p= 0.7, list = FALSE)  
training <- ad[intrain,]  
testing <- ad[-intrain,]

# We check the dimensions of out training dataframe and testing dataframe  
  
dim(training)

## [1] 700 10

# We check the dimensions of out training dataframe and testing dataframe  
   
dim(testing)

## [1] 300 10

# We then clean the data using the anyNA() method that checks for any null values.  
# ---  
#   
anyNA(ad)

## [1] FALSE

# Then check the summary of our data by using the summary() function  
# ---  
#   
summary(ad)

## Daily Time Spent on Site Age Area Income Daily Internet Usage  
## Min. :32.60 Min. :19.00 Min. :13996 Min. :104.8   
## 1st Qu.:51.36 1st Qu.:29.00 1st Qu.:47032 1st Qu.:138.8   
## Median :68.22 Median :35.00 Median :57012 Median :183.1   
## Mean :65.00 Mean :36.01 Mean :55000 Mean :180.0   
## 3rd Qu.:78.55 3rd Qu.:42.00 3rd Qu.:65471 3rd Qu.:218.8   
## Max. :91.43 Max. :61.00 Max. :79485 Max. :270.0   
## Ad Topic Line City Male Country   
## Length:1000 Length:1000 Min. :0.000 Length:1000   
## Class :character Class :character 1st Qu.:0.000 Class :character   
## Mode :character Mode :character Median :0.000 Mode :character   
## Mean :0.481   
## 3rd Qu.:1.000   
## Max. :1.000   
## Timestamp Clicked on Ad  
## Min. :2016-01-01 02:52:10.00 Min. :0.0   
## 1st Qu.:2016-02-18 02:55:42.00 1st Qu.:0.0   
## Median :2016-04-07 17:27:29.50 Median :0.5   
## Mean :2016-04-10 10:34:06.64 Mean :0.5   
## 3rd Qu.:2016-05-31 03:18:14.00 3rd Qu.:1.0   
## Max. :2016-07-24 00:22:16.00 Max. :1.0

training[["Clicked on Ad"]] = factor(training[["Clicked on Ad"]])

trctrl <- trainControl(method = "repeatedcv", number = 10, repeats = 3)  
  
svm\_Linear <- train(`Area Income` ~., data = training, method = "svmLinear",   
 trControl=trctrl,   
 preProcess = c("center", "scale"),   
 tuneLength = 10)

## Warning in preProcess.default(thresh = 0.95, k = 5, freqCut = 19, uniqueCut  
## = 10, : These variables have zero variances: `Ad Topic Line`Adaptive uniform  
## capability, `Ad Topic Line`Advanced local task-force, `Ad Topic Line`Advanced  
## web-enabled standardization, `Ad Topic Line`Assimilated fault-tolerant hub,  
## `Ad Topic Line`Automated multi-state toolset, `Ad Topic Line`Automated stable  
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## `Ad Topic Line`Business-focused transitional solution, `Ad Topic Line`Cloned  
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## Topic Line`Customizable homogeneous contingency, `Ad Topic Line`Customizable  
## systematic service-desk, `Ad Topic Line`Decentralized attitude-oriented  
## interface, `Ad Topic Line`Devolved exuding Local Area Network, `Ad Topic  
## Line`Distributed leadingedge orchestration, `Ad Topic Line`Diverse multi-  
## tasking parallelism, `Ad Topic Line`Enhanced regional conglomeration, `Ad  
## Topic Line`Enhanced system-worthy application, `Ad Topic Line`Ergonomic client-  
## driven application, `Ad Topic Line`Ergonomic full-range time-frame, `Ad Topic  
## Line`Ergonomic multi-state structure, `Ad Topic Line`Expanded full-range  
## synergy, `Ad Topic Line`Extended analyzing emulation, `Ad Topic Line`Face-  
## to-face analyzing encryption, `Ad Topic Line`Face-to-face mission-critical  
## definition, `Ad Topic Line`Front-line fault-tolerant intranet, `Ad Topic  
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## Topic Line`Grass-roots cohesive monitoring, `Ad Topic Line`Implemented discrete  
## frame, `Ad Topic Line`Intuitive dynamic attitude, `Ad Topic Line`Intuitive  
## explicit firmware, `Ad Topic Line`Intuitive global website, `Ad Topic  
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## Line`Optimized coherent Internet solution, `Ad Topic Line`Phased full-range  
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## analyzing concept, `Ad Topic Line`Pre-emptive client-driven secured line,  
## `Ad Topic Line`Pre-emptive neutral contingency, `Ad Topic Line`Pre-emptive  
## systematic budgetary management, `Ad Topic Line`Proactive encompassing  
## paradigm, `Ad Topic Line`Profound stable product, `Ad Topic Line`Progressive  
## empowering alliance, `Ad Topic Line`Realigned systematic function, `Ad  
## Topic Line`Reduced holistic help-desk, `Ad Topic Line`Self-enabling didactic  
## pricing structure, `Ad Topic Line`Sharable upward-trending support, `Ad  
## Topic Line`Streamlined homogeneous analyzer, `Ad Topic Line`Synchronized  
## zero tolerance product, `Ad Topic Line`Synergized clear-thinking protocol,  
## `Ad Topic Line`Team-oriented zero-defect initiative, `Ad Topic Line`Total  
## 5thgeneration encoding, `Ad Topic Line`Total asynchronous architecture,  
## `Ad Topic Line`Total zero administration software, `Ad Topic Line`Universal  
## contextually-based system engine, `Ad Topic Line`User-friendly grid-enabled  
## analyzer, `Ad Topic Line`Versatile next generation pricing structure, `Ad Topic  
## Line`Vision-oriented asynchronous Internet solution, `Ad Topic Line`Visionary  
## multi-tasking alliance, CityAmandaland, CityAmyfurt, CityBakerhaven,  
## CityBernardton, CityBlairville, CityBoyerberg, CityChristinetown, CityDavidview,  
## CityEast Georgeside, CityEast Michele, CityEast Sheriville, CityEvansfurt,  
## CityFosterside, CityHawkinsbury, CityHernandezfort, CityHintonport,  
## CityJenniferhaven, CityJohnstonshire, CityKimberlyhaven, CityLake Amanda,  
## CityLake Jessica, CityLake Michelle, CityLake Susan, CityLauraburgh,  
## CityLesliefort, CityMasseyshire, CityMichelleside, CityNew Darlene,  
## CityNew Juan, CityNew Sean, CityNew Tinamouth, CityNorth Anaport, CityNorth  
## Jonathan, CityNorth Kristine, CityNovaktown, CityPalmerside, CityPenatown,  
## CityPerryburgh, CityPort Christinemouth, CityPort Elijah, CityPruittmouth,  
## CityRachelhaven, CityReneechester, CityRichardsland, CityRichardsonshire,  
## CitySanchezland, CitySanderstown, CitySandraville, CitySarahland, CityShaneland,  
## CitySmithtown, CitySouth Aaron, CitySouth Davidmouth, CitySouth Stephanieport,  
## CityStephenborough, CityTinachester, CityTylerport, CityWaltertown, CityWest  
## Alyssa, CityWest Aprilport, CityWest Benjamin, CityWest Chloeborough,  
## CityWest David, CityWest Julia, CityWest Lacey, CityWhiteport, CityWongland,  
## CountryBhutan, CountryColombia, CountryCook Islands, CountryEquatorial Guinea,  
## CountryMalaysia, CountrySingapore, CountryTajikistan

## Warning in .local(x, ...): Variable(s) `' constant. Cannot scale data.

## Warning in preProcess.default(thresh = 0.95, k = 5, freqCut = 19, uniqueCut =  
## 10, : These variables have zero variances: `Ad Topic Line`Adaptive contextually-  
## based methodology, `Ad Topic Line`Ameliorated exuding solution, `Ad Topic  
## Line`Assimilated next generation firmware, `Ad Topic Line`Balanced dynamic  
## application, `Ad Topic Line`Centralized asynchronous portal, `Ad Topic  
## Line`Centralized clear-thinking Graphic Interface, `Ad Topic Line`Configurable  
## 24/7 hub, `Ad Topic Line`Cross-platform neutral system engine, `Ad Topic  
## Line`Customer-focused incremental system engine, `Ad Topic Line`Customer-  
## focused multi-tasking Internet solution, `Ad Topic Line`Customer-focused zero-  
## defect process improvement, `Ad Topic Line`Customizable zero-defect Internet  
## solution, `Ad Topic Line`Devolved tangible approach, `Ad Topic Line`Enhanced  
## dedicated support, `Ad Topic Line`Exclusive zero tolerance alliance, `Ad Topic  
## Line`Focused multi-state workforce, `Ad Topic Line`Focused scalable complexity,  
## `Ad Topic Line`Front-line bandwidth-monitored capacity, `Ad Topic Line`Front-  
## line systemic capability, `Ad Topic Line`Front-line zero-defect array, `Ad  
## Topic Line`Fully-configurable context-sensitive Graphic Interface, `Ad Topic  
## Line`Function-based context-sensitive secured line, `Ad Topic Line`Grass-  
## roots 4thgeneration forecast, `Ad Topic Line`Implemented didactic support,  
## `Ad Topic Line`Innovative executive encoding, `Ad Topic Line`Integrated  
## client-server definition, `Ad Topic Line`Inverse next generation moratorium,  
## `Ad Topic Line`Mandatory 4thgeneration structure, `Ad Topic Line`Monitored  
## context-sensitive initiative, `Ad Topic Line`Monitored dynamic instruction  
## set, `Ad Topic Line`Monitored intermediate circuit, `Ad Topic Line`Multi-  
## layered fresh-thinking neural-net, `Ad Topic Line`Multi-layered fresh-thinking  
## process improvement, `Ad Topic Line`Networked foreground definition, `Ad  
## Topic Line`Optimized attitude-oriented initiative, `Ad Topic Line`Organic  
## logistical adapter, `Ad Topic Line`Organized client-driven alliance, `Ad  
## Topic Line`Persistent fault-tolerant service-desk, `Ad Topic Line`Persistent  
## homogeneous framework, `Ad Topic Line`Phased zero-defect portal, `Ad Topic  
## Line`Polarized analyzing intranet, `Ad Topic Line`Pre-emptive cohesive  
## budgetary management, `Ad Topic Line`Profit-focused systemic support, `Ad Topic  
## Line`Progressive intermediate throughput, `Ad Topic Line`Public-key intangible  
## Graphical User Interface, `Ad Topic Line`Public-key zero-defect analyzer, `Ad  
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## `Ad Topic Line`Realigned next generation projection, `Ad Topic Line`Realigned  
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## Interface, `Ad Topic Line`Reverse-engineered dynamic function, `Ad Topic  
## Line`Robust dedicated system engine, `Ad Topic Line`Seamless real-time array,  
## `Ad Topic Line`Self-enabling asynchronous knowledge user, `Ad Topic Line`Stand-  
## alone radical throughput, `Ad Topic Line`Synchronized systemic hierarchy,  
## `Ad Topic Line`Synergized grid-enabled framework, `Ad Topic Line`Total bi-  
## directional success, `Ad Topic Line`Triple-buffered 3rdgeneration migration, `Ad  
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## infrastructure, `Ad Topic Line`Up-sized intangible circuit, `Ad Topic Line`User-  
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## customer loyalty, `Ad Topic Line`Vision-oriented bifurcated contingency,  
## `Ad Topic Line`Visionary mission-critical application, CityBowenview,  
## CityBradleyburgh, CityBradleyside, CityBrandiland, CityBrandonstad,  
## CityBrianland, CityCatherinefort, CityChristopherville, CityCurtisport,  
## CityDonaldshire, CityEast Michaelland, CityEast Michaeltown, CityEast Troyhaven,  
## CityGomezport, CityGreerton, CityGuzmanland, CityHolderville, CityHurleyborough,  
## CityJenniferstad, CityJessicashire, CityJohnsonfort, CityJohnstad,  
## CityJonathantown, CityJordantown, CityJosephmouth, CityKarenton, CityLake  
## Edward, CityLake Matthewland, CityLisafort, CityLovemouth, CityMariahview,  
## CityMeghanchester, CityMelissastad, CityMichellefort, CityMillerview,  
## CityMunozberg, CityNew Christinatown, CityNew Keithburgh, CityNew Nathan,  
## CityNew Tammy, CityNorth Elizabeth, CityNorth Kimberly, CityNorth Virginia,  
## CityPaulshire, CityPort Blake, CityPort Calvintown, CityPort Mitchell, CityPort  
## Paultown, CityRamirezhaven, CityRichardsontown, CitySandersland, CitySouth  
## Adamhaven, CitySouth Blakestad, CitySouth Jaimeview, CitySouth Renee, CitySouth  
## Troy, CitySouth Walter, CityTranland, CityValerieland, CityVanessaview,  
## CityWest Eduardotown, CityWest Joseph, CityWest Justin, CityWest Michaelport,  
## CityWest Roytown, CityWest Thomas, CityWest Wendyland, CountryMarshall Islands,  
## CountryNicaragua

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## attitude, `Ad Topic Line`Advanced 5thgeneration capability, `Ad Topic  
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## Line`Face-to-face dedicated flexibility, `Ad Topic Line`Focused intangible  
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## `Ad Topic Line`Multi-lateral empowering throughput, `Ad Topic Line`Multi-  
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## oriented system-worthy forecast, CityAlvaradoport, CityAndrewborough,  
## CityBradleyborough, CityCharlenetown, CityChristinehaven, CityDavidside,  
## CityDavisfurt, CityDuffystad, CityEast Carlos, CityEast Christopher, CityEast  
## Heatherside, CityEast Johnport, CityEast Kevinbury, CityEast Lindsey,  
## CityEast Michelleberg, CityEast Mike, CityEast Toddfort, CityElizabethbury,  
## CityGarciaview, CityGilbertville, CityHartmanchester, CityHayesmouth,  
## CityHelenborough, CityJacksonmouth, CityJacobstad, CityJessicastad,  
## CityJohnsontown, CityJordanshire, CityKatieport, CityKevinchester,  
## CityKimberlytown, CityLake Jonathanview, CityLake Josetown, CityLake  
## Tracy, CityLindsaymouth, CityMarkhaven, CityMeaganfort, CityMichaelmouth,  
## CityMillerchester, CityMorrismouth, CityNew Denisebury, CityNew Patrick, CityNew  
## Paul, CityNew Teresa, CityNorth Loriburgh, CityNorth Ricardotown, CityOlsonside,  
## CityPort Beth, CityPort Brittanyville, CityPort Christopherborough, CityPort  
## Daniel, CityPort Jasmine, CityPort Jennifer, CityPort Jodi, CityPort Maria,  
## CityPort Sherrystad, CityPort Whitneyhaven, CityRobertstown, CitySouth  
## Jackieberg, CityStewartbury, CityThomasstad, CityWest Alice, CityWest Casey,  
## CityWest Katiefurt, CityWest Russell, CityWest Sydney, CityWest Tanya, CityWest  
## Terrifurt, CityWilliamport, CountryBritish Indian Ocean Territory (Chagos  
## Archipelago), CountryCape Verde, CountrySaint Kitts and Nevis

## Warning in .local(x, ...): Variable(s) `' constant. Cannot scale data.

## Warning in preProcess.default(thresh = 0.95, k = 5, freqCut = 19, uniqueCut =  
## 10, : These variables have zero variances: `Ad Topic Line`Balanced value-added  
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## `Ad Topic Line`Phased content-based middleware, `Ad Topic Line`Phased hybrid  
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## solution, `Ad Topic Line`Upgradable asymmetric emulation, `Ad Topic Line`User-  
## friendly client-server instruction set, `Ad Topic Line`Vision-oriented  
## multi-tasking success, CityAnthonyfurt, CityBarbershire, CityBeckton,  
## CityCharlesbury, CityCharlesport, CityChaseshire, CityCourtneyfort,  
## CityCrawfordfurt, CityCynthiaside, CityEast Breannafurt, CityEast Jessefort,  
## CityEast Rachaelfurt, CityEast Shawnchester, CityEricksonmouth, CityGarciatown,  
## CityHaleview, CityHannahside, CityHarmonhaven, CityHessstad, CityIsaacborough,  
## CityKarenmouth, CityKingchester, CityLake Jesus, CityLake Rhondaburgh,  
## CityMackenziemouth, CityMeyersstad, CityMichaelshire, CityMorganport,  
## CityNew Hollyberg, CityNew Jamestown, CityNew Sonialand, CityNew Tyler,  
## CityNorth Charlesbury, CityNorth Leonmouth, CityNorth Lisachester, CityNorth  
## Russellborough, CityPatriciahaven, CityPhilipberg, CityPort Brianfort, CityPort  
## Davidland, CityPort Destiny, CityPort Erinberg, CityPort Jacquelinestad,  
## CityPort Joshuafort, CityPort Patrickton, CityRobertmouth, CityRobertsonburgh,  
## CityRogerburgh, CitySherrishire, CityShirleyfort, CitySilvaton, CitySouth Mark,  
## CitySouth Meredithmouth, CitySouth Tiffanyton, CityTammymouth, CityTroyville,  
## CityWelchshire, CityWest Angela, CityWest Annefort, CityWest Brandonton,  
## CityWest Brenda, CityWest Ericaport, CityWest Lindseybury, CityWilliamsborough,  
## CityWrightview, CityYuton, CountryAndorra, CountryAzerbaijan, CountryComoros,  
## CountryJordan, CountryMozambique, CountryNiger, CountrySvalbard & Jan Mayen  
## Islands

## Warning in .local(x, ...): Variable(s) `' constant. Cannot scale data.

## Warning in preProcess.default(thresh = 0.95, k = 5, freqCut = 19, uniqueCut  
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## Local Area Network, `Ad Topic Line`Ameliorated user-facing help-desk, `Ad  
## Topic Line`Centralized systematic knowledgebase, `Ad Topic Line`Compatible  
## scalable emulation, `Ad Topic Line`Configurable fault-tolerant monitoring,  
## `Ad Topic Line`Configurable tertiary capability, `Ad Topic Line`Cross-  
## platform client-server hierarchy, `Ad Topic Line`Customer-focused upward-  
## trending contingency, `Ad Topic Line`Customizable holistic archive, `Ad Topic  
## Line`Customizable mission-critical adapter, `Ad Topic Line`Customizable multi-  
## tasking website, `Ad Topic Line`Decentralized foreground infrastructure, `Ad  
## Topic Line`Devolved zero administration intranet, `Ad Topic Line`Digitized  
## global capability, `Ad Topic Line`Down-sized modular intranet, `Ad Topic  
## Line`Down-sized uniform info-mediaries, `Ad Topic Line`Enhanced asymmetric  
## installation, `Ad Topic Line`Exclusive disintermediate Internet solution, `Ad  
## Topic Line`Extended interactive model, `Ad Topic Line`Face-to-face reciprocal  
## methodology, `Ad Topic Line`Focused fresh-thinking Graphic Interface, `Ad Topic  
## Line`Focused systemic benchmark, `Ad Topic Line`Focused web-enabled Graphical  
## User Interface, `Ad Topic Line`Front-line intermediate database, `Ad Topic  
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## proofed responsive matrix, `Ad Topic Line`Implemented bifurcated workforce,  
## `Ad Topic Line`Integrated human-resource encoding, `Ad Topic Line`Inverse  
## bi-directional knowledge user, `Ad Topic Line`Inverse local hub, `Ad Topic  
## Line`Managed zero tolerance concept, `Ad Topic Line`Multi-channeled mission-  
## critical success, `Ad Topic Line`Multi-layered secondary software, `Ad  
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## Topic Line`Organic bottom-line service-desk, `Ad Topic Line`Persevering even-  
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## Line`Quality-focused hybrid frame, `Ad Topic Line`Re-contextualized human-  
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## transitional ability, `Ad Topic Line`Secured uniform instruction set, `Ad Topic  
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## CityCalebberg, CityCameronberg, CityCarterport, CityChristopherport,  
## CityColemanshire, CityDavidton, CityEast Aaron, CityEast Donna, CityEast  
## Heidi, CityEast Paul, CityEstradafurt, CityEvansville, CityGrahamberg,  
## CityHobbsbury, CityHughesport, CityJamesmouth, CityJuliaport, CityKristinfurt,  
## CityKristintown, CityKyleborough, CityKylieview, CityLake Angela, CityLake  
## Christopherfurt, CityLake Nicole, CityMcdonaldfort, CityMillerland, CityNew  
## Brandy, CityNew Johnberg, CityNew Marcusbury, CityNew Patriciashire, CityNew  
## Traceystad, CityNew Travistown, CityNew Wanda, CityNorth Andrew, CityNorth  
## Angelastad, CityNorth Richardburgh, CityNorth Tylerland, CityPort Brian,  
## CityPort Melissastad, CityPort Michealburgh, CityRamirezland, CityRickymouth,  
## CityRiggsstad, CityRoberttown, CityRonniemouth, CityShawstad, CitySouth  
## Daniel, CitySouth Denise, CitySouth Denisefurt, CitySouth Dianeshire, CitySouth  
## Lauraton, CitySouth Manuel, CitySouth Meghan, CitySouth Peter, CitySuzannetown,  
## CityTaylorhaven, CityTaylorport, CityWest Dylanberg, CityWest Kevinfurt,  
## CityZacharystad, CountryGuinea, CountryMacedonia, CountryMontserrat, CountrySan  
## Marino

## Warning in .local(x, ...): Variable(s) `' constant. Cannot scale data.

## Warning in preProcess.default(thresh = 0.95, k = 5, freqCut = 19, uniqueCut  
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## `Ad Topic Line`Horizontal heuristic support, `Ad Topic Line`Horizontal  
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## Line`Synergized cohesive array, `Ad Topic Line`Synergized intangible open  
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## CityBethburgh, CityBradyfurt, CityCampbellstad, CityClineshire,  
## CityDaviesborough, CityDayton, CityDebraburgh, CityDustinborough, CityEast  
## Connie, CityEast Dana, CityGarychester, CityGreerport, CityGreghaven,  
## CityHenryland, CityHuffmanchester, CityIngramberg, CityJacquelineshire,  
## CityJamesfurt, CityJayville, CityJoanntown, CityJoechester, CityJonesland,  
## CityKeithtown, CityKlineside, CityLake Cynthia, CityLake Elizabethside,  
## CityLake Jennifer, CityLake Kurtmouth, CityLake Zacharyfurt, CityLawsonshire,  
## CityLeonchester, CityMillerbury, CityMollyport, CityMorganfort, CityMosleyburgh,  
## CityMurphymouth, CityNew Dawnland, CityNew Jasmine, CityNew Lucasburgh,  
## CityNew Nancy, CityNew Theresa, CityNorth Aaronburgh, CityNorth Aaronchester,  
## CityNorth Derekville, CityNorth Garyhaven, CityNorth Randy, CityPattymouth,  
## CityPhelpschester, CityPort Aprilville, CityPort Stacey, CitySamanthaland,  
## CitySmithburgh, CitySouth Adam, CitySouth Corey, CitySouth Rebecca, CitySouth  
## Ronald, CitySouth Tomside, CityThomasview, CityTimothyfurt, CityTurnerville,  
## CityVanessastad, CityWest Amanda, CityWest Courtney, CityWest Jeremyside,  
## CityWest Lisa, CityWestshire, CityWintersfort, CountryArmenia, CountryDjibouti,  
## CountryGermany, CountryHaiti, CountryPapua New Guinea, CountryReunion,  
## CountrySao Tome and Principe

## Warning in .local(x, ...): Variable(s) `' constant. Cannot scale data.

## Warning in preProcess.default(thresh = 0.95, k = 5, freqCut = 19, uniqueCut  
## = 10, : These variables have zero variances: `Ad Topic Line`Adaptive demand-  
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## Graphic Interface, `Ad Topic Line`Exclusive even-keeled moratorium, `Ad Topic  
## Line`Face-to-face intermediate approach, `Ad Topic Line`Front-line actuating  
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## Line`Function-based incremental standardization, `Ad Topic Line`Fundamental  
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## `Ad Topic Line`Managed national hardware, `Ad Topic Line`Monitored 24/7  
## moratorium, `Ad Topic Line`Monitored homogeneous artificial intelligence, `Ad  
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## capacity, `Ad Topic Line`Programmable empowering middleware, `Ad Topic  
## Line`Progressive 24/7 definition, `Ad Topic Line`Public-key foreground  
## groupware, `Ad Topic Line`Quality-focused maximized extranet, `Ad Topic  
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## CityBrandymouth, CityBrownport, CityCarterburgh, CityCarterland, CityColebury,  
## CityCunninghamhaven, CityCurtisview, CityDianaville, CityEast Ericport, CityEast  
## Graceland, CityEast Jennifer, CityEast Samanthashire, CityEast Susanland,  
## CityEast Tylershire, CityEast Vincentstad, CityEdwardsport, CityElizabethport,  
## CityElizabethstad, CityErinmouth, CityFrankport, CityHannaport, CityHartport,  
## CityJeffreyburgh, CityJeffreyshire, CityJeremyshire, CityLake Adrian, CityLake  
## Deannaborough, CityLake Deborahburgh, CityLake James, CityLake Jillville,  
## CityLake Joshuafurt, CityMariebury, CityMelissafurt, CityMillerside, CityNew  
## James, CityNew Matthew, CityNew Steve, CityNew Williammouth, CityNorth  
## Alexandra, CityNorth Brittanyburgh, CityNorth Daniel, CityNorth Jenniferburgh,  
## CityNorth Tiffany, CityPerezland, CityPhillipsbury, CityPort Cassie, CityPort  
## Danielleberg, CityPort Georgebury, CityPort Jason, CityPort Jefferybury,  
## CityPort Jessicamouth, CityPort Kevinborough, CityPortermouth, CityRandyshire,  
## CitySouth Kyle, CitySouth Lauratown, CitySouth Pamela, CitySouth Vincentchester,  
## CityTaylorberg, CityTinaton, CityWest Michaelshire, CityZacharyton,  
## CountryBermuda, CountryGuinea-Bissau, CountryLiechtenstein, CountryMacao,  
## CountryMonaco

## Warning in .local(x, ...): Variable(s) `' constant. Cannot scale data.

## Warning in preProcess.default(thresh = 0.95, k = 5, freqCut = 19, uniqueCut  
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## solution, `Ad Topic Line`Exclusive neutral parallelism, `Ad Topic Line`Extended  
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## CityAliciatown, CityBrownview, CityBruceburgh, CityCannonbury, CityCoxhaven,  
## CityDaisymouth, CityDavidstad, CityEast Debraborough, CityEast Donnatown,  
## CityElizabethmouth, CityGravesport, CityGreenechester, CityHallfort,  
## CityHammondport, CityHarperborough, CityHarrishaven, CityHeatherberg,  
## CityHollyfurt, CityIanmouth, CityJamieberg, CityJaniceview, CityJulietown,  
## CityKimberlymouth, CityKnappburgh, CityKristineberg, CityLake Evantown, CityLake  
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## CityNew Debbiestad, CityNew Julie, CityNew Sabrina, CityNew Shane, CityNorth  
## Anna, CityNorth Katie, CityNorth Mark, CityNorth Tracyport, CityNorth  
## Wesleychester, CityPearsonfort, CityPort Christina, CityPort Erikhaven, CityPort  
## Lawrence, CityRamirezton, CityRochabury, CityRonaldport, CitySandrashire,  
## CitySellerstown, CitySouth Brian, CitySouth Christopher, CitySouth  
## George, CitySouth Henry, CitySouth Jade, CitySouth John, CityTimothytown,  
## CityTurnerchester, CityVillanuevastad, CityWest Ericfurt, CityWest Jane,  
## CityWest Randy, CityWest Shannon, CityWest Tanner, CityWest Zacharyborough,  
## CountryBenin, CountryIndia, CountryLesotho, CountryNamibia, CountrySouth Georgia  
## and the South Sandwich Islands

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## full-range portal, `Ad Topic Line`Synchronized user-facing core, `Ad Topic  
## Line`Synergized multimedia emulation, `Ad Topic Line`Triple-buffered demand-  
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## Line`Up-sized incremental encryption, `Ad Topic Line`Up-sized maximized model,  
## `Ad Topic Line`Upgradable multi-tasking initiative, `Ad Topic Line`Upgradable  
## optimizing toolset, `Ad Topic Line`Upgradable system-worthy array, `Ad Topic  
## Line`Versatile scalable encryption, `Ad Topic Line`Virtual bifurcated portal,  
## `Ad Topic Line`Vision-oriented real-time framework, `Ad Topic Line`Visionary  
## reciprocal circuit, CityAmyhaven, CityAndersonton, CityBlairborough,  
## CityBradshawborough, CityButlerfort, CityCodyburgh, CityCoffeytown, CityEast  
## Maureen, CityEast Timothyport, CityEmilyfurt, CityFlorestown, CityHarveyport,  
## CityJasminefort, CityJensenborough, CityJohnport, CityLake Brandonview,  
## CityLake Craigview, CityLake Danielle, CityLake Gerald, CityLake Lisa, CityLake  
## Melindamouth, CityLesliebury, CityLukeport, CityMasonhaven, CityMatthewtown,  
## CityMichaelland, CityNew Angelview, CityNew Brendafurt, CityNew Cynthia, CityNew  
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## CityNorth Maryland, CityNorth Regina, CityOdomville, CityPatrickmouth,  
## CityPort Chasemouth, CityPort Eric, CityPort Julie, CityPort Michaelmouth,  
## CityPort Rachel, CityPort Raymondfort, CityPort Sarahhaven, CityRichardshire,  
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## Cathyfurt, CitySouth Davidhaven, CitySouth Jasminebury, CitySouth Jeanneport,  
## CitySouth Lisa, CitySylviaview, CityTammyshire, CityTaylormouth, CityWest  
## Angelabury, CityWest Arielstad, CityWest Brad, CityWest Colin, CityWest  
## Gabriellamouth, CityWest Michaelhaven, CityWest Pamela, CityWest Rhondamouth,  
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## CityChaseshire, CityCurtisport, CityEast Breannafurt, CityEast Georgeside,  
## CityEast Graceland, CityEast Lindsey, CityEast Michelleberg, CityEast  
## Rachaelfurt, CityElizabethport, CityEmilyfurt, CityEvansfurt, CityGarychester,  
## CityGreerton, CityHansenland, CityHarmonhaven, CityHenryfort, CityJacobstad,  
## CityJaniceview, CityJessicashire, CityJoechester, CityKarenton, CityKeithtown,  
## CityLake Craigview, CityLake Elizabethside, CityLake Jessica, CityLake  
## Kurtmouth, CityMcdonaldfort, CityMillerbury, CityMillerside, CityMollyport,  
## CityNew Jasmine, CityNew Johnberg, CityNew Michael, CityNorth Andrew, CityNorth  
## Lisachester, CityPatrickmouth, CityPattymouth, CityPerryburgh, CityPhillipsbury,  
## CityPort Calvintown, CityPort Jason, CityPort Jessicamouth, CityPort Patrickton,  
## CityPort Sarahhaven, CityPort Stacey, CityRandyshire, CityRichardsland,  
## CitySouth Christopher, CitySouth Daniel, CitySouth Jaimeview, CitySouth  
## Manuel, CityValerieland, CityVillanuevaton, CityWest Angelabury, CityWest  
## Brenda, CityWest Casey, CityWest Eduardotown, CityWest Lindseybury, CityWest  
## Michaelstad, CityZacharystad, CountryBhutan, CountryDjibouti, CountryHaiti,  
## CountryIceland, CountryMacedonia, CountryMarshall Islands, CountryMozambique,  
## CountrySao Tome and Principe, CountrySwaziland, CountryThailand

## Warning in .local(x, ...): Variable(s) `' constant. Cannot scale data.

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## Chloeborough, CityWest Jeremyside, CityWest Kevinfurt, CityWest Lacey, CityWest  
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## CitySouth Rebecca, CityTaylorberg, CityThomasstad, CityTroyville, CityWest  
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## Lisa, CityWestshire, CityWrightview, CountryComoros, CountryCook Islands,  
## CountryIndia, CountryMacao, CountrySvalbard & Jan Mayen Islands

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## CityJosephmouth, CityKarenmouth, CityKristintown, CityKyleborough, CityLake  
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## Susan, CityLake Vanessa, CityLake Zacharyfurt, CityMarkhaven, CityMorganport,  
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## CityNorth Randy, CityNorth Russellborough, CityNorth Virginia, CityNovaktown,  
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## CityDustinborough, CityEast Christopherbury, CityEast Samanthashire, CityEast  
## Sheriville, CityEast Tylershire, CityElizabethbury, CityElizabethmouth,  
## CityElizabethstad, CityGarciaview, CityGarrettborough, CityHaleview,  
## CityHamiltonfort, CityHernandezfort, CityHessstad, CityHobbsbury, CityHollyfurt,  
## CityHuffmanchester, CityHughesport, CityHurleyborough, CityIngramberg,  
## CityIsaacborough, CityJacksonmouth, CityJayville, CityJessicastad,  
## CityJohnstonmouth, CityKimberlymouth, CityLake Jennifer, CityLake Joshuafurt,  
## CityLake Tracy, CityLawsonshire, CityMullenside, CityMurphymouth, CityNew  
## Teresa, CityNew Traceystad, CityNorth Aaronburgh, CityNorth Anna, CityPort  
## Jacquelinestad, CityPort Jennifer, CityPort Michaelmouth, CityPortermouth,  
## CityRamosstad, CityRogerburgh, CitySamanthaland, CitySmithburgh, CitySouth  
## Brian, CitySouth Dianeshire, CitySouth Jeanneport, CitySouth John, CitySouth  
## Lauratown, CitySouth Mark, CitySouth Peter, CitySouth Ronald, CitySouth  
## Stephanieport, CitySouth Tomside, CityStephenborough, CityWest Colin, CityWest  
## Dylanberg, CityWest Justin, CityWintersfort, CityYuton, CityZacharyton,  
## CountryAzerbaijan, CountryBritish Indian Ocean Territory (Chagos Archipelago),  
## CountryBurundi, CountryGuinea, CountryGuinea-Bissau, CountryPapua New Guinea,  
## CountrySouth Georgia and the South Sandwich Islands

## Warning in .local(x, ...): Variable(s) `' constant. Cannot scale data.

## Warning in preProcess.default(thresh = 0.95, k = 5, freqCut = 19, uniqueCut  
## = 10, : These variables have zero variances: `Ad Topic Line`Assimilated  
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## Line`Business-focused maximized complexity, `Ad Topic Line`Business-focused  
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## `Ad Topic Line`Centralized multi-state hierarchy, `Ad Topic Line`Configurable  
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## `Ad Topic Line`Digitized homogeneous core, `Ad Topic Line`Down-sized background  
## groupware, `Ad Topic Line`Enhanced system-worthy application, `Ad Topic  
## Line`Enterprise-wide incremental Internet solution, `Ad Topic Line`Ergonomic  
## client-driven application, `Ad Topic Line`Exclusive neutral parallelism,  
## `Ad Topic Line`Extended leadingedge solution, `Ad Topic Line`Face-to-face  
## intermediate approach, `Ad Topic Line`Face-to-face multimedia success, `Ad  
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## facing extranet, `Ad Topic Line`Intuitive exuding service-desk, `Ad Topic  
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## `Ad Topic Line`Multi-layered secondary software, `Ad Topic Line`Multi-tiered  
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## CityEast Vincentstad, CityFrankport, CityHannahside, CityHarperborough,  
## CityJamesmouth, CityJensenborough, CityJohnsontown, CityJohnstonshire,  
## CityKimberlyhaven, CityKingchester, CityLake Amanda, CityLake Cynthia, CityLake  
## Evantown, CityLake Faith, CityLake Josetown, CityLake Kevin, CityLake Michelle,  
## CityLake Rhondaburgh, CityMackenziemouth, CityMelissafurt, CityMichaelmouth,  
## CityMillerchester, CityMosleyburgh, CityNew Denisebury, CityNew Hollyberg,  
## CityNew Juan, CityNew Kayla, CityNew Patrick, CityNew Sonialand, CityNew  
## Wanda, CityNew Williammouth, CityNorth Anaport, CityNorth Laurenview,  
## CityNorth Michael, CityParkerhaven, CityPenatown, CityPort Angelamouth,  
## CityPort Michealburgh, CityRamirezhaven, CityRichardsontown, CityRonniemouth,  
## CityRussellville, CitySandraland, CitySmithtown, CityTaylormouth,  
## CityTimothyfurt, CityWest Benjamin, CityWest Brad, CityWest Ericaport, CityWest  
## Jane, CityWest Rhondamouth, CityWest Roytown, CityWest Shaun, CityWest Tanner,  
## CityWest Wendyland, CityWest Zacharyborough, CountryJordan, CountryLesotho,  
## CountryNetherlands, CountryReunion, CountrySaint Barthelemy, CountrySingapore

## Warning in .local(x, ...): Variable(s) `' constant. Cannot scale data.

## Warning in preProcess.default(thresh = 0.95, k = 5, freqCut = 19, uniqueCut  
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## CityButlerfort, CityClineshire, CityCrawfordfurt, CityEast Donna, CityEast  
## Ericport, CityEast Kevinbury, CityEast Troyhaven, CityElizabethstad,  
## CityHaleview, CityHintonport, CityJaniceview, CityJenniferstad, CityJohnsontown,  
## CityKeithtown, CityKristinfurt, CityKyleborough, CityLake Christopherfurt,  
## CityLake Danielle, CityLake Jillville, CityLake Matthewland, CityLeonchester,  
## CityLesliebury, CityMasonhaven, CityMatthewtown, CityMauriceshire,  
## CityMichaelshire, CityMillerchester, CityMorganfort, CityNew Dawnland,  
## CityNew Debbiestad, CityNew James, CityNew Juan, CityNew Matthew, CityNew  
## Michael, CityNew Patrick, CityNew Sabrina, CityNorth Charlesbury, CityNorth  
## Garyhaven, CityNorth Kristine, CityNorth Regina, CityPort Brianfort, CityPort  
## Christinemouth, CityPort James, CityPort Juan, CityPort Rachel, CityPort  
## Sarahhaven, CityRonniemouth, CityRussellville, CitySellerstown, CitySmithside,  
## CitySouth Jackieberg, CitySouth Peter, CityTammymouth, CityTimothyfurt,  
## CityTimothytown, CityWest Casey, CityWest Gabriellamouth, CityWhiteport,  
## CountryColombia, CountryMontserrat

## Warning in .local(x, ...): Variable(s) `' constant. Cannot scale data.

## Warning in preProcess.default(thresh = 0.95, k = 5, freqCut = 19, uniqueCut  
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## sensitive Graphic Interface, `Ad Topic Line`Function-based context-sensitive  
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## `Ad Topic Line`Future-proofed stable function, `Ad Topic Line`Horizontal  
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## Line`Multi-tiered foreground Graphic Interface, `Ad Topic Line`Operative  
## didactic Local Area Network, `Ad Topic Line`Persevering even-keeled help-  
## desk, `Ad Topic Line`Polarized analyzing intranet, `Ad Topic Line`Pre-  
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## Line`Progressive 24/7 definition, `Ad Topic Line`Progressive 24hour forecast,  
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## CityAmandaland, CityBowenview, CityBradleyside, CityBradyfurt, CityBrandymouth,  
## CityBrownton, CityCampbellstad, CityCarterland, CityCharlenetown,  
## CityCodyburgh, CityDavidview, CityEast Christopherbury, CityEast Samanthashire,  
## CityElizabethbury, CityElizabethmouth, CityEricksonmouth, CityGomezport,  
## CityGravesport, CityHayesmouth, CityIsaacborough, CityJacksonmouth,  
## CityJeremyshire, CityJohnstonshire, CityJonathantown, CityKaylashire,  
## CityKristineberg, CityLake Angela, CityLake Brian, CityLake Faith, CityLake  
## Hailey, CityLake Melindamouth, CityLake Nicole, CityLake Zacharyfurt,  
## CityLawsonshire, CityLesliefort, CityMarkhaven, CityMeghanchester,  
## CityMillerland, CityMullenside, CityNew Angelview, CityNew Denisebury, CityNew  
## Lucasburgh, CityNorth Anaport, CityNorth Anna, CityNorth Brittanyburgh,  
## CityNorth Katie, CityNorth Kimberly, CityNorth Loriburgh, CityNorth  
## Tracyport, CityNorth Wesleychester, CityNovaktown, CityPort Angelamouth,  
## CityPort Blake, CityPort Jacquelinestad, CityRandyshire, CityRiggsstad,  
## CityRobertmouth, CityRonaldport, CitySouth Denisefurt, CitySouth Walter,  
## CityTeresahaven, CityWelchshire, CityWest Amanda, CityWest Arielstad, CityWest  
## Derekmouth, CityWest Dylanberg, CityWest Lisa, CityWest Roytown, CountryAruba,  
## CountryAzerbaijan, CountryBenin, CountryGuinea-Bissau, CountryLiechtenstein,  
## CountrySouth Georgia and the South Sandwich Islands, CountrySvalbard & Jan Mayen  
## Islands

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## Warning in preProcess.default(thresh = 0.95, k = 5, freqCut = 19, uniqueCut  
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## CityCourtneyfort, CityCurtisview, CityDavisfurt, CityDayton, CityDebraburgh,  
## CityDerrickhaven, CityDustinmouth, CityEast Breannafurt, CityEast Debraborough,  
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## CityGreerton, CityGreghaven, CityHarperborough, CityHarrishaven, CityHenryland,  
## CityHurleyborough, CityJoanntown, CityJulietown, CityKingchester, CityKlineside,  
## CityLake Cynthia, CityLake Tracy, CityLopezberg, CityNew Frankshire, CityNew  
## Jasmine, CityNew Julie, CityNew Patriciashire, CityNew Shane, CityNorth  
## Elizabeth, CityNorth Jeremyport, CityNorth Lauraland, CityNorth Lisachester,  
## CityNorth Russellborough, CityPattymouth, CityPort Davidland, CityPort  
## Maria, CityPort Mitchell, CityRachelhaven, CityRickymouth, CitySalazarbury,  
## CitySandraland, CitySherrishire, CitySmithburgh, CitySouth Adamhaven, CitySouth  
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## CityTammyshire, CityTinaton, CityVillanuevastad, CityVillanuevaton, CityWest  
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## CityWilcoxport, CityWrightview, CountryAndorra, CountryDjibouti, CountryNamibia,  
## CountryReunion, CountrySaint Kitts and Nevis, CountrySaint Lucia

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## Warning in preProcess.default(thresh = 0.95, k = 5, freqCut = 19, uniqueCut =  
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## `Ad Topic Line`Visionary reciprocal circuit, CityAliciatown, CityAustinborough,  
## CityAustinland, CityBeckton, CityBrandiland, CityCarsonshire, CityCharlesbury,  
## CityCoxhaven, CityDianaville, CityDustinborough, CityEast Aaron, CityEast  
## Brianberg, CityEast Lindsey, CityEast Maureen, CityEast Michaeltown, CityEast  
## Tylershire, CityGreerport, CityGuzmanland, CityHallfort, CityHamiltonfort,  
## CityHartmanchester, CityHuffmanchester, CityJoechester, CityKimberlymouth,  
## CityLake Adrian, CityLake Conniefurt, CityLake Jacob, CityLake Jessicaville,  
## CityLindsaymouth, CityLoriville, CityMackenziemouth, CityMeyerchester,  
## CityMurphymouth, CityNew Karenberg, CityNew Kayla, CityNew Keithburgh, CityNew  
## Nancy, CityNew Travistown, CityNorth Jessicaville, CityNorth Ricardotown,  
## CityOdomville, CityPalmerside, CityPort Brittanyville, CityPort Daniel, CityPort  
## Jodi, CityPort Kevinborough, CityPort Melissastad, CityPort Michaelmouth,  
## CityRichardsontown, CitySandersland, CitySarahland, CitySharpberg, CitySouth  
## Daniel, CitySouth Jaimeview, CitySouth Lauraton, CitySylviaview, CityTaylorberg,  
## CityTaylorport, CityTurnerville, CityWest Angelabury, CityWest Brandonton,  
## CityWest Ericaport, CityWest Ericfurt, CityWest Katiefurt, CityWest Randy,  
## CityWongland, CountryBritish Virgin Islands, CountryComoros, CountryKiribati,  
## CountryNetherlands, CountrySao Tome and Principe, CountrySlovenia,  
## CountryTrinidad and Tobago, CountryTurkmenistan

## Warning in .local(x, ...): Variable(s) `' constant. Cannot scale data.

## Warning in preProcess.default(thresh = 0.95, k = 5, freqCut = 19, uniqueCut  
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## Raymondfort, CityRichardsonmouth, CityRobertsonburgh, CityShaneland, CitySouth  
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## Territory (Chagos Archipelago), CountryEquatorial Guinea, CountryMalaysia,  
## CountryNew Caledonia, CountryPanama, CountrySlovakia (Slovak Republic)

## Warning in .local(x, ...): Variable(s) `' constant. Cannot scale data.

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## Warning in preProcess.default(thresh = 0.95, k = 5, freqCut = 19, uniqueCut =  
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## contingency, CityAndersonton, CityBakerhaven, CityBarbershire, CityBoyerberg,  
## CityChristinehaven, CityChristinetown, CityColemanshire, CityDavilachester,  
## CityEast Graceland, CityEast Heatherside, CityEmilyfurt, CityGarychester,  
## CityGilbertville, CityHammondport, CityHawkinsbury, CityHernandezfort,  
## CityHernandezside, CityHolderville, CityIanmouth, CityIngramberg, CityJamesfurt,  
## CityJayville, CityJohnstad, CityJohnstonmouth, CityKimberlyhaven, CityLake  
## Jessica, CityLake Jesus, CityLake Kurtmouth, CityLake Michelle, CityLake  
## Vanessa, CityMariebury, CityMasseyshire, CityMelissastad, CityMichellefort,  
## CityMillerside, CityMillerview, CityNew Brendafurt, CityNew Christinatown,  
## CityNew Johnberg, CityNew Sharon, CityNicholasland, CityNorth Angelatown,  
## CityNorth Tiffany, CityPatriciahaven, CityPort Brian, CityPort Chasemouth,  
## CityPort Erinberg, CityPort Georgebury, CityPort Whitneyhaven, CityPortermouth,  
## CityPruittmouth, CityRamosstad, CityReneechester, CityRichardshire,  
## CityRobertside, CityRoberttown, CitySouth Davidhaven, CitySouth Stephanieport,  
## CityTinachester, CityValerieland, CityVanessastad, CityVanessaview, CityWest  
## Alice, CityWest Aprilport, CityWest Brenda, CityWest Courtney, CityWest  
## Jeremyside, CityWest Michaelport, CityWest Michaelshire, CityWest Rhondamouth,  
## CountryBermuda, CountryBhutan, CountryGuadeloupe, CountryHaiti

## Warning in .local(x, ...): Variable(s) `' constant. Cannot scale data.

## Warning in preProcess.default(thresh = 0.95, k = 5, freqCut = 19, uniqueCut  
## = 10, : These variables have zero variances: `Ad Topic Line`Adaptive  
## asynchronous attitude, `Ad Topic Line`Advanced exuding conglomeration, `Ad  
## Topic Line`Ameliorated user-facing help-desk, `Ad Topic Line`Automated client-  
## driven orchestration, `Ad Topic Line`Automated coherent flexibility, `Ad Topic  
## Line`Automated web-enabled migration, `Ad Topic Line`Business-focused user-  
## facing benchmark, `Ad Topic Line`Configurable coherent function, `Ad Topic  
## Line`Configurable interactive contingency, `Ad Topic Line`Configurable tertiary  
## capability, `Ad Topic Line`Cross-group non-volatile secured line, `Ad Topic  
## Line`Customer-focused multi-tasking Internet solution, `Ad Topic Line`Customer-  
## focused zero-defect process improvement, `Ad Topic Line`De-engineered attitude-  
## oriented projection, `Ad Topic Line`Digitized heuristic solution, `Ad Topic  
## Line`Distributed intangible database, `Ad Topic Line`Enhanced systematic  
## adapter, `Ad Topic Line`Exclusive zero tolerance frame, `Ad Topic Line`Face-to-  
## face dedicated flexibility, `Ad Topic Line`Face-to-face executive encryption,  
## `Ad Topic Line`Focused multi-state workforce, `Ad Topic Line`Front-line  
## methodical utilization, `Ad Topic Line`Front-line upward-trending groupware,  
## `Ad Topic Line`Function-based incremental standardization, `Ad Topic Line`Grass-  
## roots eco-centric instruction set, `Ad Topic Line`Horizontal client-server  
## database, `Ad Topic Line`Horizontal transitional challenge, `Ad Topic  
## Line`Implemented bifurcated workforce, `Ad Topic Line`Integrated leadingedge  
## frame, `Ad Topic Line`Intuitive explicit firmware, `Ad Topic Line`Mandatory  
## disintermediate utilization, `Ad Topic Line`Mandatory homogeneous architecture,  
## `Ad Topic Line`Monitored dynamic instruction set, `Ad Topic Line`Monitored  
## intermediate circuit, `Ad Topic Line`Monitored systematic hierarchy, `Ad Topic  
## Line`Multi-channeled mission-critical success, `Ad Topic Line`Multi-lateral  
## attitude-oriented adapter, `Ad Topic Line`Multi-layered 4thgeneration knowledge  
## user, `Ad Topic Line`Open-source local approach, `Ad Topic Line`Optimized  
## coherent Internet solution, `Ad Topic Line`Optional secondary access, `Ad  
## Topic Line`Organized global flexibility, `Ad Topic Line`Polarized 5thgeneration  
## matrix, `Ad Topic Line`Polarized 6thgeneration info-mediaries, `Ad Topic  
## Line`Polarized bandwidth-monitored moratorium, `Ad Topic Line`Polarized  
## mission-critical structure, `Ad Topic Line`Proactive bandwidth-monitored  
## policy, `Ad Topic Line`Proactive radical support, `Ad Topic Line`Profound  
## maximized workforce, `Ad Topic Line`Programmable asymmetric data-warehouse,  
## `Ad Topic Line`Quality-focused zero tolerance matrices, `Ad Topic Line`Re-  
## engineered demand-driven capacity, `Ad Topic Line`Reverse-engineered 24hour  
## hardware, `Ad Topic Line`Reverse-engineered maximized focus group, `Ad Topic  
## Line`Robust context-sensitive neural-net, `Ad Topic Line`Seamless cohesive  
## conglomeration, `Ad Topic Line`Seamless real-time array, `Ad Topic Line`Secured  
## upward-trending benchmark, `Ad Topic Line`Self-enabling tertiary challenge,  
## `Ad Topic Line`Sharable bottom-line solution, `Ad Topic Line`Sharable client-  
## driven software, `Ad Topic Line`Stand-alone radical throughput, `Ad Topic  
## Line`Total asynchronous architecture, `Ad Topic Line`Triple-buffered demand-  
## driven alliance, `Ad Topic Line`Up-sized next generation architecture, `Ad  
## Topic Line`Up-sized real-time methodology, `Ad Topic Line`Upgradable optimizing  
## toolset, `Ad Topic Line`Versatile next generation pricing structure, `Ad Topic  
## Line`Virtual bifurcated portal, `Ad Topic Line`Virtual impactful algorithm, `Ad  
## Topic Line`Vision-oriented multi-tasking success, `Ad Topic Line`Vision-oriented  
## next generation solution, CityAlvaradoport, CityBradshawborough, CityCalebberg,  
## CityChaseshire, CityCurtisport, CityDavidside, CityDonaldshire, CityEast  
## Timothyport, CityEdwardsport, CityHendrixmouth, CityHessstad, CityJamieberg,  
## CityJasminefort, CityJohnport, CityJordanshire, CityKatieport, CityLake  
## Deannaborough, CityLake Elizabethside, CityLake Jennifer, CityLake Jonathanview,  
## CityLake Joshuafurt, CityLake Patrick, CityLake Susan, CityLovemouth,  
## CityMunozberg, CityNew Tammy, CityNew Travis, CityNorth Aaronchester,  
## CityNorth Alexandra, CityNorth Andrew, CityNorth Randy, CityNorth Tylerland,  
## CityPerezland, CityPhelpschester, CityPort Aprilville, CityPort Cassie, CityPort  
## Christina, CityPort Destiny, CityPort Jessicamouth, CityPort Michealburgh,  
## CityPort Sherrystad, CityRamirezhaven, CityRamirezton, CityRobinsontown,  
## CitySamanthaland, CitySanderstown, CitySandraville, CityShirleyfort, CitySouth  
## Cathyfurt, CitySouth Christopher, CitySouth Corey, CitySouth Denise, CitySouth  
## Henry, CitySouth John, CitySouth Rebecca, CityStewartbury, CityThomasview,  
## CityTroyville, CityWest Colin, CityWest Julia, CityWest Kevinfurt, CityWest  
## Lacey, CityWest Tanya, CityWest Wendyland, CityWest Zacharyborough, CityYuton,  
## CountryCook Islands, CountryIndia, CountryMacedonia

## Warning in .local(x, ...): Variable(s) `' constant. Cannot scale data.

**Failure to scale data.**

# We can then check the result of our train() model as shown below  
# ---  
#   
svm\_Linear

## Support Vector Machines with Linear Kernel   
##   
## 700 samples  
## 9 predictor  
##   
## Pre-processing: centered (1618), scaled (1618)   
## Resampling: Cross-Validated (10 fold, repeated 3 times)   
## Summary of sample sizes: 630, 632, 629, 632, 630, 629, ...   
## Resampling results:  
##   
## RMSE Rsquared MAE   
## 13402.82 0.1305429 10568.72  
##   
## Tuning parameter 'C' was held constant at a value of 1

**RMSE OF 13291. The model performed much worse. The model is not a good fit**

## 9. Recommendations

1. Individuals who are of the female gender and are between 28 and 36 years old were the most in our data set, therefore she should creates an ad that targets these individuals
2. Most of the those who click on the ad have an area income of 55000, so maybe reevaluate the prices to accommodate other income levels.