

Autism Spectrum Disorder Screening

The goal of the Autism Screening and Assessment Clinic is to provide identification of Autism Spectrum Disorder (ASD) to inform intensive behavioral treatment, while addressing specific skill deficits and enhancing community inclusion.

Objective is to predict the likelihood of a person having autism using survey and demographic variables. The target variable is Class_ASD. It is a classification problem. Number of Instances (records in the data set): 704 (rows) Number of Attributes (fields within each record): 21 (columns)

I divided the provided data into scaled and unscaled categories for this dataset using PCA, a feature engineering technique, and I tested each category's performance. Prior to performing PCA, I first removed the target column. Once the PCA was scaled, two graphs were drawn, with the first principle component explaining 4.9% of the variance and the second principle component explaining 2.6%. First principle component accounts for 89.6% of the variance in the unscaled PCA plot, while second principle component accounts for 6.5% of the variance. The overall variance was 96.1%. We can conclude that unscaled PCA perform better than scaled PCA at reducing the dimensions of the data.

loading required libraries

```
library('dplyr')
```

```
## Warning: package 'dplyr' was built under R version 4.2.2
```

```
##
```

```
## Attaching package: 'dplyr'
```

```
## The following objects are masked from 'package:stats':
```

```
##
```

```
## filter, lag
```

```
## The following objects are masked from 'package:base':
```

```
##
```

```
## intersect, setdiff, setequal, union
```

```
library('tidyr')
```

```
## Warning: package 'tidyr' was built under R version 4.2.2
```

```
library('ggplot2')
```

```
## Warning: package 'ggplot2' was built under R version 4.2.2
```

```
library('caret')
```

```
## Warning: package 'caret' was built under R version 4.2.2
```

```
## Loading required package: lattice
```

```
library('e1071')
```

```
## Warning: package 'e1071' was built under R version 4.2.2
```

```
library('rpart')  
library('neuralnet')
```

```
## Warning: package 'neuralnet' was built under R version 4.2.2
```

```
##  
## Attaching package: 'neuralnet'
```

```
## The following object is masked from 'package:dplyr':  
##  
##      compute
```

```
library('caretEnsemble')
```

```
## Warning: package 'caretEnsemble' was built under R version 4.2.2
```

```
##  
## Attaching package: 'caretEnsemble'
```

```
## The following object is masked from 'package:ggplot2':  
##  
##      autoplot
```

Data import

```
# reading the autism dataset  
autism_data <- read.csv("/Users/hp/Desktop/DA5030/Gayathri/Project/autism_screening.csv")
```

exploratory data plots -

Visualizing datasets using head(), dim(), str(), summary(), length(), colsums() selecting the columns-selectif() 1. table(), hist(), ggplots after the feature selection 2. checking unique values - unique() 3. correlation/collinearity/chi-squared analysis - cor(), 4. evaluation of distribution - barplots, histograms.

```
# visualising first few rows of the dataset
# checking the dimension of the dataset
# the dataset has 704 rows and 21 columns
head(autism_data)
```

```
##   A1_Score A2_Score A3_Score A4_Score A5_Score A6_Score A7_Score A8_Score
## 1         1         1         1         1         0         0         1         1
## 2         1         1         0         1         0         0         0         1
## 3         1         1         0         1         1         0         1         1
## 4         1         1         0         1         0         0         1         1
## 5         1         0         0         0         0         0         0         1
## 6         1         1         1         1         1         0         1         1
##   A9_Score A10_Score age gender ethnicity jundice austim contry_of_res
## 1         0         0 26    f White-European    no    no United States
## 2         0         1 24    m          Latino    no    yes      Brazil
## 3         1         1 27    m          Latino    yes    yes      Spain
## 4         0         1 35    f White-European    no    yes United States
## 5         0         0 40    f          ?        no    no      Egypt
## 6         1         1 36    m          Others    yes    no United States
##   used_app_before result age_desc relation Class.ASD
## 1                no    6 18 and more    Self      NO
## 2                no    5 18 and more    Self      NO
## 3                no    8 18 and more    Parent    YES
## 4                no    6 18 and more    Self      NO
## 5                no    2 18 and more    ?        NO
## 6                no    9 18 and more    Self      YES
```

```
dim(autism_data)
```

```
## [1] 704 21
```

```
str(autism_data)
```

```
## 'data.frame':    704 obs. of  21 variables:
##  $ A1_Score      : int  1 1 1 1 1 1 0 1 1 1 ...
##  $ A2_Score      : int  1 1 1 1 0 1 1 1 1 1 ...
##  $ A3_Score      : int  1 0 0 0 0 1 0 1 0 1 ...
##  $ A4_Score      : int  1 1 1 1 0 1 0 1 0 1 ...
##  $ A5_Score      : int  0 0 1 0 0 1 0 0 1 0 ...
##  $ A6_Score      : int  0 0 0 0 0 0 0 0 0 1 ...
##  $ A7_Score      : int  1 0 1 1 0 1 0 0 0 1 ...
##  $ A8_Score      : int  1 1 1 1 1 1 1 0 1 1 ...
##  $ A9_Score      : int  0 0 1 0 0 1 0 1 1 1 ...
##  $ A10_Score     : int  0 1 1 1 0 1 0 0 1 0 ...
##  $ age           : num  26 24 27 35 40 36 17 64 29 17 ...
##  $ gender        : chr   "f" "m" "m" "f" ...
##  $ ethnicity     : chr   "White-European" "Latino" "Latino" "White-European" ...
##  $ jundice       : chr   "no" "no" "yes" "no" ...
##  $ austim        : chr   "no" "yes" "yes" "yes" ...
##  $ contry_of_res : chr   "United States" "Brazil" "Spain" "United States" ...
##  $ used_app_before: chr   "no" "no" "no" "no" ...
##  $ result        : num   6 5 8 6 2 9 2 5 6 8 ...
```

```
## $ age_desc      : chr "18 and more" "18 and more" "18 and more" "18 and more" ...
## $ relation      : chr "Self" "Self" "Parent" "Self" ...
## $ Class.ASD     : chr "NO" "NO" "YES" "NO" ...
```

```
# summary of all the variables
```

```
summary(autism_data)
```

```
##      A1_Score      A2_Score      A3_Score      A4_Score
## Min.      :0.0000 Min.      :0.0000 Min.      :0.0000 Min.      :0.0000
## 1st Qu.:0.0000 1st Qu.:0.0000 1st Qu.:0.0000 1st Qu.:0.0000
## Median :1.0000 Median :0.0000 Median :0.0000 Median :0.0000
## Mean    :0.7216 Mean    :0.4531 Mean    :0.4574 Mean    :0.4957
## 3rd Qu.:1.0000 3rd Qu.:1.0000 3rd Qu.:1.0000 3rd Qu.:1.0000
## Max.    :1.0000 Max.    :1.0000 Max.    :1.0000 Max.    :1.0000
##
##      A5_Score      A6_Score      A7_Score      A8_Score
## Min.      :0.0000 Min.      :0.0000 Min.      :0.0000 Min.      :0.0000
## 1st Qu.:0.0000 1st Qu.:0.0000 1st Qu.:0.0000 1st Qu.:0.0000
## Median :0.0000 Median :0.0000 Median :0.0000 Median :1.0000
## Mean    :0.4986 Mean    :0.2841 Mean    :0.4176 Mean    :0.6491
## 3rd Qu.:1.0000 3rd Qu.:1.0000 3rd Qu.:1.0000 3rd Qu.:1.0000
## Max.    :1.0000 Max.    :1.0000 Max.    :1.0000 Max.    :1.0000
##
##      A9_Score      A10_Score      age      gender
## Min.      :0.0000 Min.      :0.0000 Min.      : 17.0 Length:704
## 1st Qu.:0.0000 1st Qu.:0.0000 1st Qu.: 21.0 Class :character
## Median :0.0000 Median :1.0000 Median : 27.0 Mode  :character
## Mean    :0.3239 Mean    :0.5739 Mean    : 29.7
## 3rd Qu.:1.0000 3rd Qu.:1.0000 3rd Qu.: 35.0
## Max.    :1.0000 Max.    :1.0000 Max.    :383.0
##                      NA's      :2
## ethnicity      jundice      austim      contry_of_res
## Length:704      Length:704      Length:704      Length:704
## Class :character Class :character Class :character Class :character
## Mode  :character Mode  :character Mode  :character Mode  :character
##
##
##
##
## used_app_before      result      age_desc      relation
## Length:704      Min.      : 0.000 Length:704      Length:704
## Class :character 1st Qu.: 3.000 Class :character Class :character
## Mode  :character Median : 4.000 Mode  :character Mode  :character
##                      Mean    : 4.875
##                      3rd Qu.: 7.000
##                      Max.    :10.000
##
## Class.ASD
## Length:704
## Class :character
## Mode  :character
##
##
##
```

```
##
```

remove the row with age = 383,since the max value is 383

```
rownames(autism_data[autism_data$age == 383,])
```

```
## [1] "53"    "NA"    "NA.1"
```

```
autism_data <- autism_data[-53,]  
autism_data <- as.data.frame(autism_data)  
max(autism_data$age, na.rm = TRUE)
```

```
## [1] 64
```

```
# maximum value for age is now 64
```

```
# numerical columns count  
length(select_if(autism_data,is.numeric))
```

```
## [1] 12
```

```
# categorical columns count  
length(select_if(autism_data,is.character))
```

```
## [1] 9
```

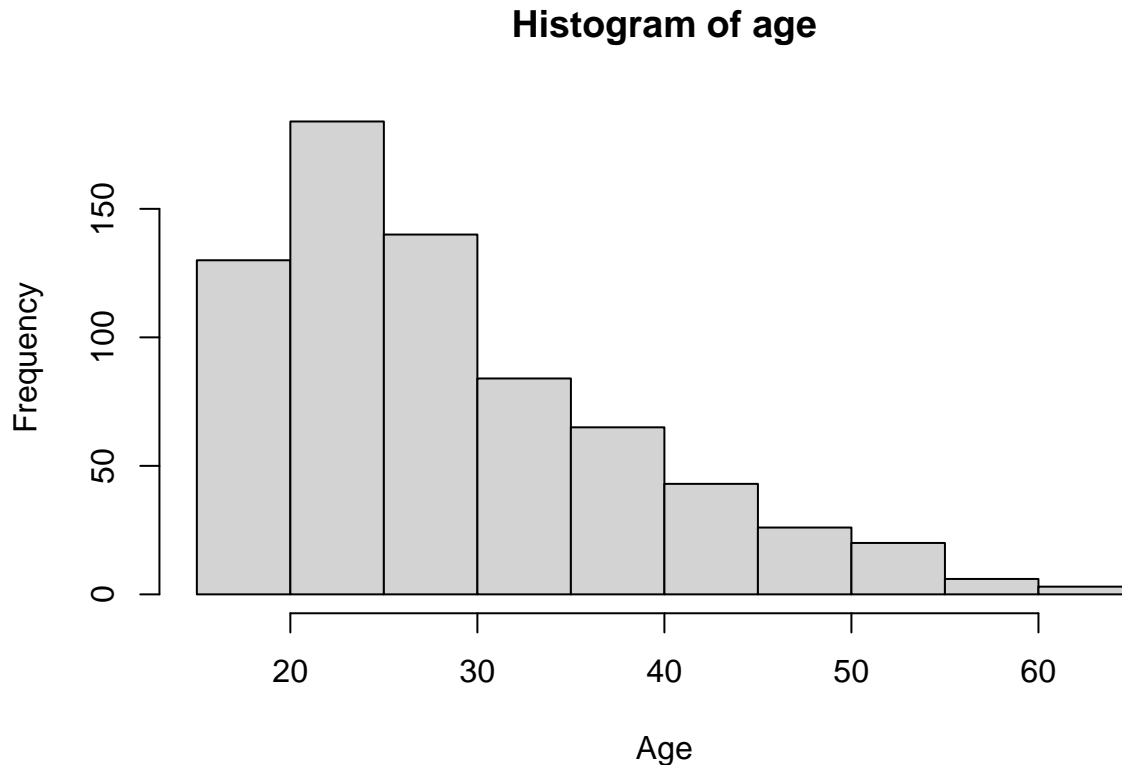
checking for missing values in the dataset

```
colSums(is.na(autism_data))
```

```
##      A1_Score      A2_Score      A3_Score      A4_Score      A5_Score  
##           0           0           0           0           0  
##      A6_Score      A7_Score      A8_Score      A9_Score     A10_Score  
##           0           0           0           0           0  
##           age      gender      ethnicity      jundice      austim  
##           2           0           0           0           0  
##  contry_of_res used_app_before      result      age_desc      relation  
##           0           0           0           0           0  
##      Class.ASD  
##           0
```

```
# there are 2 missing values in the age column
```

```
# checking for the distribution of age column
hist(autism_data$age, main = 'Histogram of age', xlab = "Age")
```



Because the age distribution is positively skewed, we will use the median to impute the values.

```
autism_data$age[is.na(autism_data$age)] <- median(autism_data$age, na.rm = TRUE)
sum(is.na(autism_data$age))
```

```
## [1] 0
```

```
# selecting the continous columns
# selecting the categorical columns
# checking for count of unique values in categorical variables
numerical_aut_data <- select_if(autism_data, is.numeric) # Check if an Object is of Type Numeric
catgl_autism_data <- select_if(autism_data, is.character) # Check if character
catgl_autism_data %>% summarise_all(n_distinct)
```

```
##   gender ethnicity jundice austim contry_of_res used_app_before age_desc
## 1      2         12      2      2             67             2         1
##   relation Class.ASD
## 1      6           2
```

```
# There are 9 columns with unique count values:
# gender - 2, ethnicity - 12, jundice - 2, autism - 2, country_of_res - 67, used_app_before - 2, age_desc

# Age desc can be removed because it only has one unique value and is therefore useless.
catgl_autism_data <- catgl_autism_data[,-7]
```

```
# further checking unique values in each column
unique(catgl_autism_data$gender)
```

```
## [1] "f" "m"
```

```
# There is a "?" in the ethnicity column, which is an invalid value, and "Other" and "others" are treated as such.
unique(catgl_autism_data$ethnicity)
```

```
## [1] "White-European" "Latino"          "?"               "Others"
## [5] "Black"          "Asian"           "Middle Eastern " "Pasifika"
## [9] "South Asian"    "Hispanic"        "Turkish"        "others"
```

```
# replacing '?' and 'other' with 'Others'
catgl_autism_data$ethnicity[catgl_autism_data$ethnicity == "?"] <- "Others"
catgl_autism_data$ethnicity[catgl_autism_data$ethnicity == "others"] <- "Others"
unique(catgl_autism_data$ethnicity)
```

```
## [1] "White-European" "Latino"          "Others"          "Black"
## [5] "Asian"          "Middle Eastern " "Pasifika"        "South Asian"
## [9] "Hispanic"       "Turkish"
```

```
unique(catgl_autism_data$jundice)
```

```
## [1] "no" "yes"
```

```
unique(catgl_autism_data$austim)
```

```
## [1] "no" "yes"
```

```
unique(catgl_autism_data$contry_of_res)
```

```
## [1] "United States" "Brazil"          "Spain"
## [4] "Egypt"         "New Zealand"    "Bahamas"
## [7] "Burundi"      "Austria"        "Argentina"
## [10] "Jordan"        "Ireland"        "United Arab Emirates"
## [13] "Afghanistan"   "Lebanon"        "United Kingdom"
## [16] "South Africa"  "Italy"          "Pakistan"
## [19] "Bangladesh"    "Chile"          "France"
## [22] "China"         "Australia"      "Canada"
## [25] "Saudi Arabia"  "Netherlands"    "Romania"
## [28] "Sweden"        "Tonga"          "Oman"
## [31] "India"         "Philippines"    "Sri Lanka"
## [34] "Sierra Leone" "Ethiopia"       "Viet Nam"
```

```
## [37] "Iran"           "Costa Rica"      "Germany"
## [40] "Mexico"         "Russia"          "Armenia"
## [43] "Iceland"        "Nicaragua"       "Hong Kong"
## [46] "Japan"          "Ukraine"         "Kazakhstan"
## [49] "AmericanSamoa"  "Uruguay"         "Serbia"
## [52] "Portugal"       "Malaysia"        "Ecuador"
## [55] "Niger"          "Belgium"         "Bolivia"
## [58] "Aruba"          "Finland"         "Turkey"
## [61] "Nepal"          "Indonesia"       "Angola"
## [64] "Azerbaijan"    "Iraq"            "Czech Republic"
## [67] "Cyprus"
```

```
unique(catgl_autism_data$used_app_before)
```

```
## [1] "no" "yes"
```

```
unique(catgl_autism_data$relation)
```

```
## [1] "Self"           "Parent"
## [3] "?"              "Health care professional"
## [5] "Relative"       "Others"
```

```
# relation column also has invalid value which is "?"
# replacing this "?" with "Others"
catgl_autism_data$relation[catgl_autism_data$relation == "?"] <- "Others"
unique(catgl_autism_data$relation)
```

```
## [1] "Self"           "Parent"
## [3] "Others"         "Health care professional"
## [5] "Relative"
```

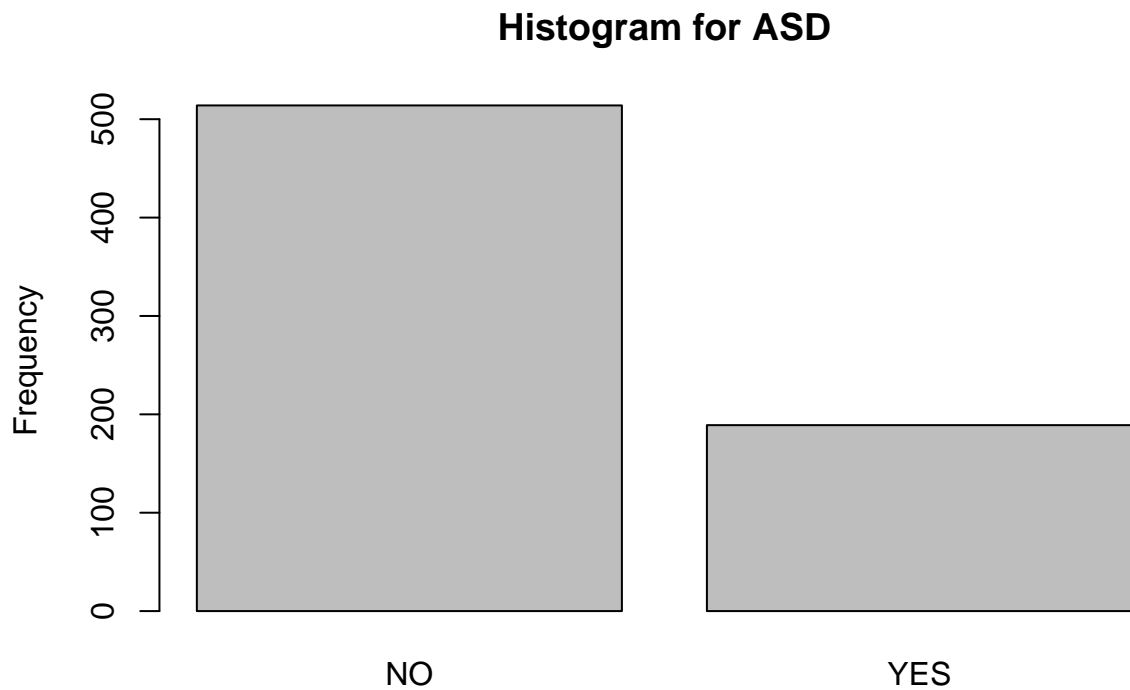
```
unique(catgl_autism_data$Class.ASD)
```

```
## [1] "NO" "YES"
```

```
# checking for the count of Autism Spectrum Disorder (ASD)
table(catgl_autism_data$Class.ASD)
```

```
##
## NO YES
## 514 189
```

```
barplot(table(catgl_autism_data$Class.ASD), main = "Histogram for ASD", ylab = "Frequency")
```

```
# there are 189 ASD patients and 514 normal patients
```

```
# checking the distribution of male and female in the data  
table(catgl_autism_data$gender)
```

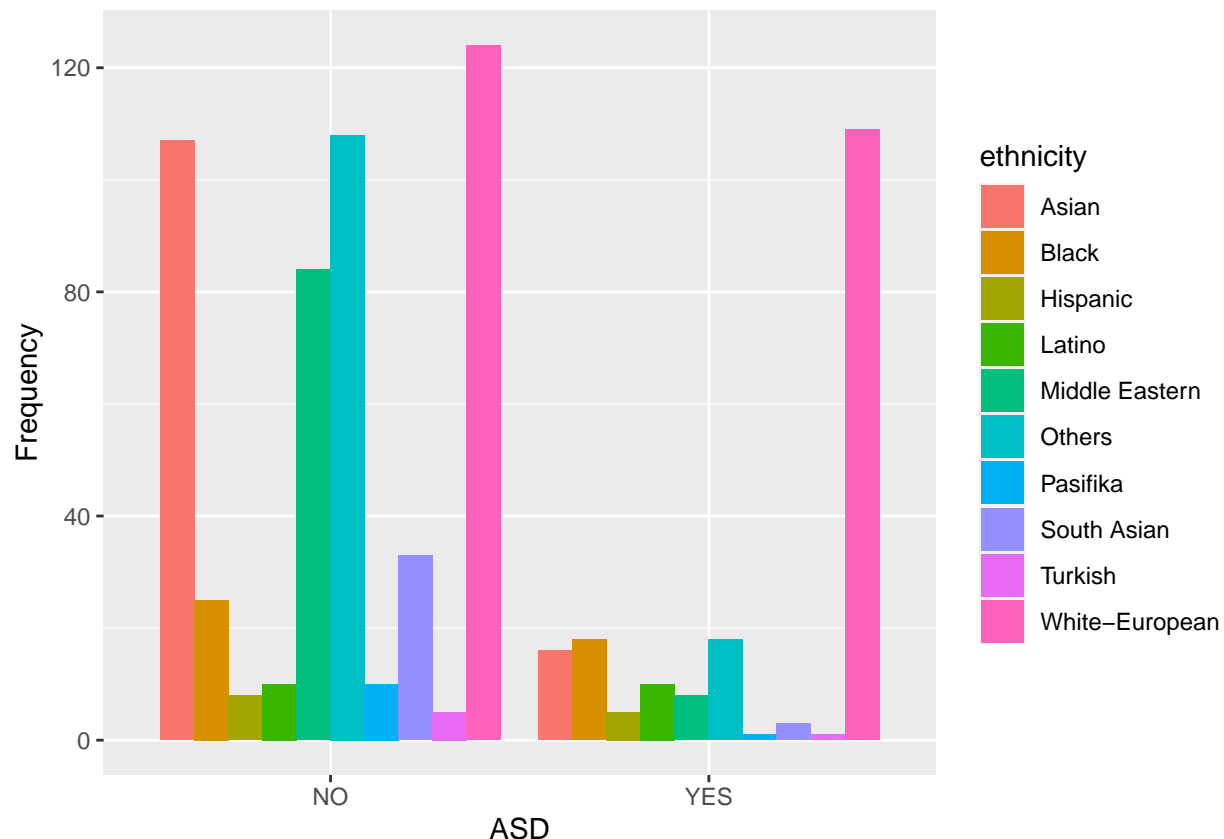
```
##  
##   f   m  
## 336 367
```

there are 336 females and 367 males

```
# plotting the histogram  
barplot(table(catgl_autism_data$gender), main = "Histogram for Gender", ylab = "Frequency")
```



```
# plotting distribution of ASD with ethnicity
table <- with(catgl_autism_data, table(ethnicity, Class.ASD))
ggplot(as.data.frame(table), aes(factor(Class.ASD), Freq, fill = ethnicity)) +
  geom_col(position = 'dodge') + xlab("ASD") + ylab("Frequency")
```



We can see from the plot that White Europeans and Pacificans have the most ASD patients, while Turkish and Pacificanos have the least. Turkish people, on the other hand, have the fewest normal people, while White Europeans have the greatest proportion of normal people.

```
# label encoding the binary categorical variables
catgl_autism_data$gender <- ifelse(catgl_autism_data$gender == "m", 1, 0)
catgl_autism_data$jundice <- ifelse(catgl_autism_data$jundice == "yes", 1, 0)
catgl_autism_data$austim <- ifelse(catgl_autism_data$austim == "yes", 1, 0)
catgl_autism_data$used_app_before <- ifelse(catgl_autism_data$used_app_before == "yes", 1, 0)
catgl_autism_data$Class.ASD <- ifelse(catgl_autism_data$Class.ASD == "YES", 1, 0)
```

```
# One hot encoding for rest of the categorical variables
dummy <- dummyVars(" ~ .", data = catgl_autism_data, sep = "_")
catgl_autism_data <- data.frame(predict(dummy, newdata = catgl_autism_data))
head(catgl_autism_data)
```

```
##   gender ethnicityAsian ethnicityBlack ethnicityHispanic ethnicityLatino
## 1      0              0              0              0              0
## 2      1              0              0              0              1
## 3      1              0              0              0              1
## 4      0              0              0              0              0
## 5      0              0              0              0              0
## 6      1              0              0              0              0
##   ethnicityMiddle.Eastern. ethnicityOthers ethnicityPasifika
## 1                      0                      0                      0
## 2                      0                      0                      0
```

## 3	0	0	0		
## 4	0	0	0		
## 5	0	1	0		
## 6	0	1	0		
##	ethnicitySouth.Asian	ethnicityTurkish	ethnicityWhite.European	jundice	austim
## 1	0	0	1	0	0
## 2	0	0	0	0	1
## 3	0	0	0	1	1
## 4	0	0	1	0	1
## 5	0	0	0	0	0
## 6	0	0	0	1	0
##	contry_of_resAfghanistan	contry_of_resAmericanSamoa	contry_of_resAngola		
## 1	0	0	0		
## 2	0	0	0		
## 3	0	0	0		
## 4	0	0	0		
## 5	0	0	0		
## 6	0	0	0		
##	contry_of_resArgentina	contry_of_resArmenia	contry_of_resAruba		
## 1	0	0	0		
## 2	0	0	0		
## 3	0	0	0		
## 4	0	0	0		
## 5	0	0	0		
## 6	0	0	0		
##	contry_of_resAustralia	contry_of_resAustria	contry_of_resAzerbaijan		
## 1	0	0	0		
## 2	0	0	0		
## 3	0	0	0		
## 4	0	0	0		
## 5	0	0	0		
## 6	0	0	0		
##	contry_of_resBahamas	contry_of_resBangladesh	contry_of_resBelgium		
## 1	0	0	0		
## 2	0	0	0		
## 3	0	0	0		
## 4	0	0	0		
## 5	0	0	0		
## 6	0	0	0		
##	contry_of_resBolivia	contry_of_resBrazil	contry_of_resBurundi		
## 1	0	0	0		
## 2	0	1	0		
## 3	0	0	0		
## 4	0	0	0		
## 5	0	0	0		
## 6	0	0	0		
##	contry_of_resCanada	contry_of_resChile	contry_of_resChina		
## 1	0	0	0		
## 2	0	0	0		
## 3	0	0	0		
## 4	0	0	0		
## 5	0	0	0		
## 6	0	0	0		
##	contry_of_resCosta.Rica	contry_of_resCyprus	contry_of_resCzech.Republic		

## 1	0	0	0
## 2	0	0	0
## 3	0	0	0
## 4	0	0	0
## 5	0	0	0
## 6	0	0	0
##	contry_of_resEcuador	contry_of_resEgypt	contry_of_resEthiopia
## 1	0	0	0
## 2	0	0	0
## 3	0	0	0
## 4	0	0	0
## 5	0	1	0
## 6	0	0	0
##	contry_of_resFinland	contry_of_resFrance	contry_of_resGermany
## 1	0	0	0
## 2	0	0	0
## 3	0	0	0
## 4	0	0	0
## 5	0	0	0
## 6	0	0	0
##	contry_of_resHong.Kong	contry_of_resIceland	contry_of_resIndia
## 1	0	0	0
## 2	0	0	0
## 3	0	0	0
## 4	0	0	0
## 5	0	0	0
## 6	0	0	0
##	contry_of_resIndonesia	contry_of_resIran	contry_of_resIraq
## 1	0	0	0
## 2	0	0	0
## 3	0	0	0
## 4	0	0	0
## 5	0	0	0
## 6	0	0	0
##	contry_of_resIreland	contry_of_resItaly	contry_of_resJapan
## 1	0	0	0
## 2	0	0	0
## 3	0	0	0
## 4	0	0	0
## 5	0	0	0
## 6	0	0	0
##	contry_of_resJordan	contry_of_resKazakhstan	contry_of_resLebanon
## 1	0	0	0
## 2	0	0	0
## 3	0	0	0
## 4	0	0	0
## 5	0	0	0
## 6	0	0	0
##	contry_of_resMalaysia	contry_of_resMexico	contry_of_resNepal
## 1	0	0	0
## 2	0	0	0
## 3	0	0	0
## 4	0	0	0
## 5	0	0	0

## 6	0	0	0
##	contry_of_resNetherlands	contry_of_resNew.Zealand	contry_of_resNicaragua
## 1	0	0	0
## 2	0	0	0
## 3	0	0	0
## 4	0	0	0
## 5	0	0	0
## 6	0	0	0
##	contry_of_resNiger	contry_of_resOman	contry_of_resPakistan
## 1	0	0	0
## 2	0	0	0
## 3	0	0	0
## 4	0	0	0
## 5	0	0	0
## 6	0	0	0
##	contry_of_resPhilippines	contry_of_resPortugal	contry_of_resRomania
## 1	0	0	0
## 2	0	0	0
## 3	0	0	0
## 4	0	0	0
## 5	0	0	0
## 6	0	0	0
##	contry_of_resRussia	contry_of_resSaudi.Arabia	contry_of_resSerbia
## 1	0	0	0
## 2	0	0	0
## 3	0	0	0
## 4	0	0	0
## 5	0	0	0
## 6	0	0	0
##	contry_of_resSierra.Leone	contry_of_resSouth.Africa	contry_of_resSpain
## 1	0	0	0
## 2	0	0	0
## 3	0	0	1
## 4	0	0	0
## 5	0	0	0
## 6	0	0	0
##	contry_of_resSri.Lanka	contry_of_resSweden	contry_of_resTonga
## 1	0	0	0
## 2	0	0	0
## 3	0	0	0
## 4	0	0	0
## 5	0	0	0
## 6	0	0	0
##	contry_of_resTurkey	contry_of_resUkraine	contry_of_resUnited.Arab.Emirates
## 1	0	0	0
## 2	0	0	0
## 3	0	0	0
## 4	0	0	0
## 5	0	0	0
## 6	0	0	0
##	contry_of_resUnited.Kingdom	contry_of_resUnited.States	contry_of_resUruguay
## 1	0	1	0
## 2	0	0	0
## 3	0	0	0

```
## 4          0          1          0
## 5          0          0          0
## 6          0          1          0
##   contry_of_resViet.Nam used_app_before relationHealth.care.professional
## 1          0          0          0
## 2          0          0          0
## 3          0          0          0
## 4          0          0          0
## 5          0          0          0
## 6          0          0          0
##   relationOthers relationParent relationRelative relationSelf Class.ASD
## 1          0          0          0          1          0
## 2          0          0          0          1          0
## 3          0          1          0          0          1
## 4          0          0          0          1          0
## 5          1          0          0          0          0
## 6          0          0          0          1          1
```

```
# finding correaltion between variables, using only numerical variables
num_cor_mat <- cor(cbind(numerical_aut_data, catgl_autism_data$Class.ASD))
num_cor_mat
```

```
##           A1_Score  A2_Score  A3_Score  A4_Score
## A1_Score  1.000000000  0.01235387  0.07497267  0.128815732
## A2_Score  0.012353866  1.00000000  0.22299723  0.157917566
## A3_Score  0.074972671  0.22299723  1.00000000  0.411962183
## A4_Score  0.128815732  0.15791757  0.41196218  1.000000000
## A5_Score  0.170417460  0.15272770  0.26397007  0.305830076
## A6_Score  0.110817604  0.18520946  0.26826005  0.294552941
## A7_Score  0.218457514 -0.04291160  0.07719548  0.150223778
## A8_Score  0.149078792  0.03371085  0.01602520  0.006711761
## A9_Score  0.146153846  0.20471525  0.31450483  0.327036547
## A10_Score 0.119585715  0.06748434  0.16719877  0.209678422
## age      0.008118375  0.08257822  0.09855214  0.107580359
## result   0.399616880  0.39143303  0.55160565  0.585248791
## catgl_autism_data$Class.ASD 0.298322602  0.31086167  0.44066179  0.469541685
##           A5_Score  A6_Score  A7_Score  A8_Score
## A1_Score  0.170417460  0.11081760  0.218457514  0.149078792
## A2_Score  0.152727704  0.18520946 -0.042911599  0.033710848
## A3_Score  0.263970068  0.26826005  0.077195477  0.016025203
## A4_Score  0.305830076  0.29455294  0.150223778  0.006711761
## A5_Score  1.000000000  0.39184869  0.237677618  0.100360028
## A6_Score  0.391848692  1.00000000  0.174868958  0.099062640
## A7_Score  0.237677618  0.17486896  1.000000000  0.083918040
## A8_Score  0.100360028  0.09906264  0.083918040  1.000000000
## A9_Score  0.396015052  0.47910011  0.188806572  0.100560301
## A10_Score 0.266358390  0.29375943  0.251077229  0.098761041
## age      0.009127665  0.09221083 -0.001250767 -0.064874480
## result   0.639051620  0.62987828  0.453988107  0.321994223
## catgl_autism_data$Class.ASD 0.536664716  0.59186965  0.350969527  0.236361328
##           A9_Score A10_Score      age      result
## A1_Score  0.1461538  0.11958571  0.008118375  0.39961688
## A2_Score  0.2047153  0.06748434  0.082578217  0.39143303
## A3_Score  0.3145048  0.16719877  0.098552145  0.55160565
```

```
## A4_Score      0.3270365 0.20967842 0.107580359 0.58524879
## A5_Score      0.3960151 0.26635839 0.009127665 0.63905162
## A6_Score      0.4791001 0.29375943 0.092210833 0.62987828
## A7_Score      0.1888066 0.25107723 -0.001250767 0.45398811
## A8_Score      0.1005603 0.09876104 -0.064874480 0.32199422
## A9_Score      1.0000000 0.28256438 0.128297891 0.66103481
## A10_Score     0.2825644 1.00000000 0.046652646 0.53607543
## age           0.1282979 0.04665265 1.000000000 0.09825975
## result        0.6610348 0.53607543 0.098259748 1.00000000
## catgl_autism_data$Class.ASD 0.6353617 0.38538689 0.132590609 0.82172939
##
## catgl_autism_data$Class.ASD
## A1_Score      0.2983226
## A2_Score      0.3108617
## A3_Score      0.4406618
## A4_Score      0.4695417
## A5_Score      0.5366647
## A6_Score      0.5918696
## A7_Score      0.3509695
## A8_Score      0.2363613
## A9_Score      0.6353617
## A10_Score     0.3853869
## age           0.1325906
## result        0.8217294
## catgl_autism_data$Class.ASD 1.0000000
```

The variable result exhibits a strong correlation with the intended variable, Class.ASD, of 0.8217294. None of the other variables exhibit strong correlations between one another.

```
# using only encoded categorical variables
cat_corr<- cor(catgl_autism_data)
cat_corr
```

```
##
## gender      1.000000000 0.058373388 -0.0290918945
## ethnicityAsian 0.058373388 1.000000000 -0.1175440956
## ethnicityBlack -0.029091894 -0.117544096 1.0000000000
## ethnicityHispanic 0.089060712 -0.063209985 -0.0350355864
## ethnicityLatino 0.026704382 -0.078803082 -0.0436784186
## ethnicityMiddle.Eastern. 0.050422601 -0.178694781 -0.0990456870
## ethnicityOthers -0.020626540 -0.215196857 -0.1192778016
## ethnicityPasifika 0.005907810 -0.058060645 -0.0321814461
## ethnicitySouth.Asian -0.036093138 -0.106985986 -0.0592994402
## ethnicityTurkish 0.026861802 -0.042726547 -0.0236821701
## ethnicityWhite.European -0.076450264 -0.324240746 -0.1797178819
## jundice      -0.019347383 -0.063833052 -0.0243507262
## austim       -0.089127192 -0.121810618 -0.0100110693
## contry_of_resAfghanistan 0.004510164 -0.007629473 -0.0350355864
## contry_of_resAmericanSamoa 0.051108437 -0.024597703 0.0978148879
## contry_of_resAngola 0.036113373 -0.017380810 -0.0096337130
```


## contry_of_resArgentina	-0.002357681	-0.024597703	-0.0136338418
## contry_of_resArmenia	0.051108437	-0.024597703	-0.0136338418
## contry_of_resAruba	0.036113373	0.081958289	-0.0096337130
## contry_of_resAustralia	-0.031048802	-0.092033745	-0.0510118171
## contry_of_resAustria	-0.003339031	-0.034836135	-0.0193087281
## contry_of_resAzerbaijan	0.036113373	-0.017380810	-0.0096337130
## contry_of_resBahamas	-0.002357681	0.045695732	-0.0136338418
## contry_of_resBangladesh	-0.024732656	0.027287910	-0.0167099006
## contry_of_resBelgium	0.062639490	-0.030147421	-0.0167099006
## contry_of_resBolivia	-0.039445261	-0.017380810	-0.0096337130
## contry_of_resBrazil	0.007638924	-0.052442100	0.0765362181
## contry_of_resBurundi	-0.039445261	-0.017380810	-0.0096337130
## contry_of_resCanada	-0.055784116	-0.042088137	0.0855450792
## contry_of_resChile	-0.039445261	-0.017380810	-0.0096337130
## contry_of_resChina	-0.039445261	0.081958289	-0.0096337130
## contry_of_resCosta.Rica	0.036113373	-0.017380810	-0.0096337130
## contry_of_resCyprus	-0.039445261	-0.017380810	-0.0096337130
## contry_of_resCzech.Republic	-0.039445261	-0.017380810	-0.0096337130
## contry_of_resEcuador	0.036113373	-0.017380810	-0.0096337130
## contry_of_resEgypt	-0.024732656	-0.030147421	-0.0167099006
## contry_of_resEthiopia	0.051108437	-0.024597703	0.2092636176
## contry_of_resFinland	0.036113373	-0.017380810	-0.0096337130
## contry_of_resFrance	-0.062929600	-0.058060645	0.3504579890
## contry_of_resGermany	-0.003339031	-0.034836135	-0.0193087281
## contry_of_resHong.Kong	-0.039445261	-0.017380810	-0.0096337130
## contry_of_resIceland	-0.002357681	0.045695732	-0.0136338418
## contry_of_resIndia	0.050963760	0.467022997	-0.0921105928
## contry_of_resIndonesia	0.036113373	0.081958289	-0.0096337130
## contry_of_resIran	0.009914024	-0.046183087	-0.0255980369
## contry_of_resIraq	0.036113373	-0.017380810	-0.0096337130
## contry_of_resIreland	0.013207943	-0.038975873	-0.0216032729
## contry_of_resItaly	-0.054567121	-0.038975873	-0.0216032729
## contry_of_resJapan	0.036113373	-0.017380810	-0.0096337130
## contry_of_resJordan	-0.006114175	-0.123263805	-0.0683217952
## contry_of_resKazakhstan	0.018953417	-0.030147421	-0.0167099006
## contry_of_resLebanon	0.036113373	-0.017380810	-0.0096337130
## contry_of_resMalaysia	-0.088454653	0.139235760	-0.0216032729
## contry_of_resMexico	0.048960738	-0.049407303	0.0285792520
## contry_of_resNepal	0.036113373	-0.017380810	0.1478662925
## contry_of_resNetherlands	0.018746115	-0.055318697	-0.0306616585
## contry_of_resNew.Zealand	0.055921506	0.141508964	-0.0353901858
## contry_of_resNicaragua	0.036113373	-0.017380810	-0.0096337130
## contry_of_resNiger	0.036113373	-0.017380810	0.1478662925
## contry_of_resOman	0.036113373	-0.017380810	-0.0096337130
## contry_of_resPakistan	0.018953417	0.027287910	-0.0167099006
## contry_of_resPhilippines	-0.041199333	0.114491932	-0.0193087281
## contry_of_resPortugal	0.036113373	-0.017380810	-0.0096337130
## contry_of_resRomania	-0.068418729	-0.030147421	-0.0167099006
## contry_of_resRussia	-0.018767288	-0.046183087	-0.0255980369
## contry_of_resSaudi.Arabia	0.034521271	-0.034836135	-0.0193087281
## contry_of_resSerbia	-0.039445261	-0.017380810	-0.0096337130
## contry_of_resSierra.Leone	0.036113373	0.081958289	-0.0096337130
## contry_of_resSouth.Africa	-0.055823798	-0.024597703	-0.0136338418
## contry_of_resSpain	-0.024732656	-0.030147421	0.1654150629

## contry_of_resSri.Lanka	0.014091589	0.282740550	-0.0363845214
## contry_of_resSweden	-0.055823798	-0.024597703	-0.0136338418
## contry_of_resTonga	-0.039445261	-0.017380810	-0.0096337130
## contry_of_resTurkey	-0.039445261	-0.017380810	-0.0096337130
## contry_of_resUkraine	-0.055823798	-0.024597703	-0.0136338418
## contry_of_resUnited.Arab.Emirates	-0.024911034	-0.144012585	-0.0002893568
## contry_of_resUnited.Kingdom	-0.001802933	-0.137532485	-0.0134915492
## contry_of_resUnited.States	-0.007687142	-0.160761581	0.0499100954
## contry_of_resUruguay	0.036113373	-0.017380810	-0.0096337130
## contry_of_resViet.Nam	-0.020679589	0.139235760	-0.0216032729
## used_app_before	-0.027801578	-0.031782152	0.0121900578
## relationHealth.care.professional	0.034521271	0.014939887	0.0596100851
## relationOthers	-0.009822501	-0.176815547	-0.1039450001
## relationParent	-0.012213987	-0.025465003	0.1372197700
## relationRelative	0.092944243	-0.074646866	0.0390761242
## relationSelf	-0.032423111	0.186705450	-0.0253106894
## Class.ASD	-0.081361471	-0.144133867	0.0862167876
##	ethnicityHispanic	ethnicityLatino	
## gender	0.089060712	0.026704382	
## ethnicityAsian	-0.063209985	-0.078803082	
## ethnicityBlack	-0.035035586	-0.043678419	
## ethnicityHispanic	1.000000000	-0.023488310	
## ethnicityLatino	-0.023488310	1.000000000	
## ethnicityMiddle.Eastern.	-0.053262364	-0.066401510	
## ethnicityOthers	-0.064142295	-0.079965381	
## ethnicityPasifika	-0.017305750	-0.021574858	
## ethnicitySouth.Asian	-0.031888601	-0.039755112	
## ethnicityTurkish	-0.012735218	-0.015876833	
## ethnicityWhite.European	-0.096644282	-0.120485193	
## jundice	-0.009793464	0.058579882	
## austim	-0.021475763	0.137917302	
## contry_of_resAfghanistan	-0.018840580	-0.023488310	
## contry_of_resAmericanSamoa	-0.007331674	-0.009140304	
## contry_of_resAngola	-0.005180582	-0.006458566	
## contry_of_resArgentina	-0.007331674	-0.009140304	
## contry_of_resArmenia	-0.007331674	-0.009140304	
## contry_of_resAruba	-0.005180582	-0.006458566	
## contry_of_resAustralia	-0.027431886	-0.034198982	
## contry_of_resAustria	-0.010383375	-0.012944821	
## contry_of_resAzerbaijan	-0.005180582	-0.006458566	
## contry_of_resBahamas	-0.007331674	-0.009140304	
## contry_of_resBangladesh	-0.008985841	-0.011202534	
## contry_of_resBelgium	-0.008985841	-0.011202534	
## contry_of_resBolivia	-0.005180582	0.220560023	
## contry_of_resBrazil	-0.015631068	0.437159555	
## contry_of_resBurundi	-0.005180582	-0.006458566	
## contry_of_resCanada	-0.020267423	-0.025267138	
## contry_of_resChile	-0.005180582	0.220560023	
## contry_of_resChina	-0.005180582	-0.006458566	
## contry_of_resCosta.Rica	-0.005180582	0.220560023	
## contry_of_resCyprus	-0.005180582	-0.006458566	
## contry_of_resCzech.Republic	-0.005180582	-0.006458566	
## contry_of_resEcuador	-0.005180582	0.220560023	
## contry_of_resEgypt	-0.008985841	-0.011202534	

## contry_of_resEthiopia	-0.007331674	-0.009140304
## contry_of_resFinland	-0.005180582	-0.006458566
## contry_of_resFrance	-0.017305750	-0.021574858
## contry_of_resGermany	-0.010383375	-0.012944821
## contry_of_resHong.Kong	-0.005180582	-0.006458566
## contry_of_resIceland	-0.007331674	-0.009140304
## contry_of_resIndia	-0.049532979	-0.061752133
## contry_of_resIndonesia	-0.005180582	-0.006458566
## contry_of_resIran	-0.013765485	-0.017161255
## contry_of_resIraq	-0.005180582	-0.006458566
## contry_of_resIreland	-0.011617279	-0.014483114
## contry_of_resItaly	-0.011617279	0.087333175
## contry_of_resJapan	-0.005180582	-0.006458566
## contry_of_resJordan	-0.036740422	-0.045803815
## contry_of_resKazakhstan	-0.008985841	-0.011202534
## contry_of_resLebanon	-0.005180582	-0.006458566
## contry_of_resMalaysia	-0.011617279	-0.014483114
## contry_of_resMexico	0.084819011	0.465638946
## contry_of_resNepal	-0.005180582	-0.006458566
## contry_of_resNetherlands	-0.016488476	-0.020555973
## contry_of_resNew.Zealand	-0.049186747	-0.061320490
## contry_of_resNicaragua	0.274969367	-0.006458566
## contry_of_resNiger	-0.005180582	-0.006458566
## contry_of_resOman	-0.005180582	-0.006458566
## contry_of_resPakistan	-0.008985841	-0.011202534
## contry_of_resPhilippines	-0.010383375	-0.012944821
## contry_of_resPortugal	-0.005180582	-0.006458566
## contry_of_resRomania	-0.008985841	-0.011202534
## contry_of_resRussia	-0.013765485	-0.017161255
## contry_of_resSaudi.Arabia	-0.010383375	-0.012944821
## contry_of_resSerbia	-0.005180582	-0.006458566
## contry_of_resSierra.Leone	-0.005180582	-0.006458566
## contry_of_resSouth.Africa	-0.007331674	-0.009140304
## contry_of_resSpain	-0.008985841	0.120053818
## contry_of_resSri.Lanka	-0.019565977	-0.024392654
## contry_of_resSweden	-0.007331674	-0.009140304
## contry_of_resTonga	-0.005180582	-0.006458566
## contry_of_resTurkey	-0.005180582	-0.006458566
## contry_of_resUkraine	-0.007331674	-0.009140304
## contry_of_resUnited.Arab.Emirates	-0.049877911	-0.062182155
## contry_of_resUnited.Kingdom	-0.048139916	-0.032618770
## contry_of_resUnited.States	0.256147605	-0.051593862
## contry_of_resUruguay	-0.005180582	-0.006458566
## contry_of_resViet.Nam	-0.011617279	-0.014483114
## used_app_before	0.063425143	0.043503680
## relationHealth.care.professional	-0.010383375	-0.012944821
## relationOthers	-0.055896997	-0.069686073
## relationParent	0.003096978	0.052512731
## relationRelative	0.026035899	0.008899791
## relationSelf	0.032917016	0.023006494
## Class.ASD	0.035840741	0.089216576
##	ethnicityMiddle.Eastern.	ethnicityOthers
## gender	0.0504226010	-0.020626540
## ethnicityAsian	-0.1786947805	-0.215196857

## ethnicityBlack	-0.0990456870	-0.119277802
## ethnicityHispanic	-0.0532623641	-0.064142295
## ethnicityLatino	-0.0664015098	-0.079965381
## ethnicityMiddle.Eastern.	1.0000000000	-0.181330423
## ethnicityOthers	-0.1813304229	1.0000000000
## ethnicityPasifika	-0.0489233969	-0.058917005
## ethnicitySouth.Asian	-0.0901491512	-0.108563966
## ethnicityTurkish	-0.0360024905	-0.043356738
## ethnicityWhite.European	-0.2732136165	-0.329023106
## jundice	-0.0004234826	-0.004574855
## austim	-0.0365495796	-0.091810418
## contry_of_resAfghanistan	0.1345809903	0.045972561
## contry_of_resAmericanSamoa	0.0584626951	-0.024960504
## contry_of_resAngola	-0.0146455185	-0.017637166
## contry_of_resArgentina	-0.0207266588	0.114303262
## contry_of_resArmenia	0.0584626951	-0.024960504
## contry_of_resAruba	-0.0146455185	-0.017637166
## contry_of_resAustralia	-0.0775500072	-0.074092539
## contry_of_resAustria	-0.0293538261	0.013957618
## contry_of_resAzerbaijan	-0.0146455185	0.080767023
## contry_of_resBahamas	-0.0207266588	0.044671379
## contry_of_resBangladesh	-0.0254029946	-0.030592078
## contry_of_resBelgium	-0.0254029946	-0.030592078
## contry_of_resBolivia	-0.0146455185	-0.017637166
## contry_of_resBrazil	-0.0441890666	-0.020225679
## contry_of_resBurundi	0.0972653459	-0.017637166
## contry_of_resCanada	-0.0281082820	0.007995232
## contry_of_resChile	-0.0146455185	-0.017637166
## contry_of_resChina	-0.0146455185	-0.017637166
## contry_of_resCosta.Rica	-0.0146455185	-0.017637166
## contry_of_resCyprus	-0.0146455185	-0.017637166
## contry_of_resCzech.Republic	-0.0146455185	-0.017637166
## contry_of_resEcuador	-0.0146455185	-0.017637166
## contry_of_resEgypt	0.1040050141	0.026302712
## contry_of_resEthiopia	-0.0207266588	-0.024960504
## contry_of_resFinland	-0.0146455185	-0.017637166
## contry_of_resFrance	0.0190472514	-0.058917005
## contry_of_resGermany	-0.0293538261	-0.035349948
## contry_of_resHong.Kong	-0.0146455185	0.080767023
## contry_of_resIceland	0.0584626951	-0.024960504
## contry_of_resIndia	-0.1268198419	-0.122171123
## contry_of_resIndonesia	-0.0146455185	-0.017637166
## contry_of_resIran	0.0460454597	0.139902038
## contry_of_resIraq	-0.0146455185	0.080767023
## contry_of_resIreland	-0.0328420758	-0.039550744
## contry_of_resItaly	-0.0328420758	-0.039550744
## contry_of_resJapan	-0.0146455185	0.080767023
## contry_of_resJordan	-0.0194327004	0.498553280
## contry_of_resKazakhstan	-0.0254029946	0.140092292
## contry_of_resLebanon	-0.0146455185	0.080767023
## contry_of_resMalaysia	-0.0328420758	-0.039550744
## contry_of_resMexico	-0.0416318682	-0.050136032
## contry_of_resNepal	-0.0146455185	-0.017637166
## contry_of_resNetherlands	-0.0466129610	-0.024815064

## contry_of_resNew.Zealand	-0.0460795538	-0.050668453
## contry_of_resNicaragua	-0.0146455185	-0.017637166
## contry_of_resNiger	-0.0146455185	-0.017637166
## contry_of_resOman	-0.0146455185	-0.017637166
## contry_of_resPakistan	-0.0254029946	0.026302712
## contry_of_resPhilippines	-0.0293538261	0.013957618
## contry_of_resPortugal	-0.0146455185	-0.017637166
## contry_of_resRomania	-0.0254029946	-0.030592078
## contry_of_resRussia	-0.0389150604	0.177255297
## contry_of_resSaudi.Arabia	0.0827969333	0.063265184
## contry_of_resSerbia	-0.0146455185	-0.017637166
## contry_of_resSierra.Leone	-0.0146455185	-0.017637166
## contry_of_resSouth.Africa	-0.0207266588	-0.024960504
## contry_of_resSpain	-0.0254029946	-0.030592078
## contry_of_resSri.Lanka	-0.0553130639	-0.066611893
## contry_of_resSweden	-0.0207266588	-0.024960504
## contry_of_resTonga	-0.0146455185	-0.017637166
## contry_of_resTurkey	-0.0146455185	-0.017637166
## contry_of_resUkraine	-0.0207266588	0.044671379
## contry_of_resUnited.Arab.Emirates	0.5554033431	0.038162455
## contry_of_resUnited.Kingdom	-0.1090808065	-0.128264860
## contry_of_resUnited.States	-0.1124014235	-0.113629992
## contry_of_resUruguay	-0.0146455185	-0.017637166
## contry_of_resViet.Nam	-0.0328420758	0.004582864
## used_app_before	0.0465502370	0.024314845
## relationHealth.care.professional	-0.0293538261	0.013957618
## relationOthers	-0.1580209442	0.818365368
## relationParent	0.1387700508	-0.114878971
## relationRelative	0.0935124729	-0.095175353
## relationSelf	0.0078758742	-0.545101302
## Class.ASD	-0.1591944913	-0.132794031
##	ethnicityPasifika	ethnicitySouth.Asian
## gender	0.005907810	-0.036093138
## ethnicityAsian	-0.058060645	-0.106985986
## ethnicityBlack	-0.032181446	-0.059299440
## ethnicityHispanic	-0.017305750	-0.031888601
## ethnicityLatino	-0.021574858	-0.039755112
## ethnicityMiddle.Eastern.	-0.048923397	-0.090149151
## ethnicityOthers	-0.058917005	-0.108563966
## ethnicityPasifika	1.000000000	-0.029290827
## ethnicitySouth.Asian	-0.029290827	1.000000000
## ethnicityTurkish	-0.011697755	-0.021554977
## ethnicityWhite.European	-0.088771248	-0.163575164
## jundice	-0.003068806	-0.076642251
## austim	0.019670220	-0.051136504
## contry_of_resAfghanistan	-0.017305750	-0.031888601
## contry_of_resAmericanSamoa	-0.006734406	-0.012409215
## contry_of_resAngola	-0.004758551	-0.008768388
## contry_of_resArgentina	-0.006734406	-0.012409215
## contry_of_resArmenia	-0.006734406	-0.012409215
## contry_of_resAruba	-0.004758551	-0.008768388
## contry_of_resAustralia	0.034444621	-0.046429806
## contry_of_resAustria	-0.009537503	-0.017574369
## contry_of_resAzerbaijan	-0.004758551	-0.008768388

## contry_of_resBahamas	-0.006734406	-0.012409215
## contry_of_resBangladesh	-0.008253818	0.083790185
## contry_of_resBelgium	-0.008253818	-0.015208975
## contry_of_resBolivia	-0.004758551	-0.008768388
## contry_of_resBrazil	-0.014357698	-0.026456345
## contry_of_resBurundi	-0.004758551	-0.008768388
## contry_of_resCanada	-0.018616357	0.010354606
## contry_of_resChile	-0.004758551	-0.008768388
## contry_of_resChina	-0.004758551	-0.008768388
## contry_of_resCosta.Rica	-0.004758551	-0.008768388
## contry_of_resCyprus	-0.004758551	-0.008768388
## contry_of_resCzech.Republic	-0.004758551	-0.008768388
## contry_of_resEcuador	-0.004758551	-0.008768388
## contry_of_resEgypt	-0.008253818	-0.015208975
## contry_of_resEthiopia	-0.006734406	-0.012409215
## contry_of_resFinland	-0.004758551	-0.008768388
## contry_of_resFrance	-0.015895954	-0.029290827
## contry_of_resGermany	-0.009537503	-0.017574369
## contry_of_resHong.Kong	-0.004758551	-0.008768388
## contry_of_resIceland	-0.006734406	-0.012409215
## contry_of_resIndia	-0.045497823	0.340609314
## contry_of_resIndonesia	-0.004758551	-0.008768388
## contry_of_resIran	-0.012644093	-0.023298756
## contry_of_resIraq	-0.004758551	-0.008768388
## contry_of_resIreland	-0.010670889	-0.019662812
## contry_of_resItaly	-0.010670889	-0.019662812
## contry_of_resJapan	-0.004758551	-0.008768388
## contry_of_resJordan	-0.033747399	-0.062184958
## contry_of_resKazakhstan	-0.008253818	-0.015208975
## contry_of_resLebanon	-0.004758551	-0.008768388
## contry_of_resMalaysia	-0.010670889	-0.019662812
## contry_of_resMexico	-0.013526825	-0.024925330
## contry_of_resNepal	-0.004758551	-0.008768388
## contry_of_resNetherlands	-0.015145258	-0.027907550
## contry_of_resNew.Zealand	0.171375181	0.099641005
## contry_of_resNicaragua	-0.004758551	-0.008768388
## contry_of_resNiger	-0.004758551	-0.008768388
## contry_of_resOman	0.299356125	-0.008768388
## contry_of_resPakistan	-0.008253818	0.083790185
## contry_of_resPhilippines	-0.009537503	-0.017574369
## contry_of_resPortugal	-0.004758551	-0.008768388
## contry_of_resRomania	-0.008253818	-0.015208975
## contry_of_resRussia	-0.012644093	-0.023298756
## contry_of_resSaudi.Arabia	-0.009537503	-0.017574369
## contry_of_resSerbia	-0.004758551	-0.008768388
## contry_of_resSierra.Leone	-0.004758551	-0.008768388
## contry_of_resSouth.Africa	-0.006734406	-0.012409215
## contry_of_resSpain	-0.008253818	-0.015208975
## contry_of_resSri.Lanka	-0.017972053	0.013075710
## contry_of_resSweden	-0.006734406	-0.012409215
## contry_of_resTonga	0.299356125	-0.008768388
## contry_of_resTurkey	-0.004758551	-0.008768388
## contry_of_resUkraine	-0.006734406	-0.012409215
## contry_of_resUnited.Arab.Emirates	-0.010107668	-0.064316524

## contry_of_resUnited.Kingdom	-0.044218244	-0.081479157
## contry_of_resUnited.States	-0.023970613	-0.084101874
## contry_of_resUruguay	-0.004758551	-0.008768388
## contry_of_resViet.Nam	-0.010670889	-0.019662812
## used_app_before	-0.016614791	-0.030615400
## relationHealth.care.professional	-0.009537503	-0.017574369
## relationOthers	-0.051343402	-0.094608396
## relationParent	-0.034887649	-0.039178776
## relationRelative	0.091542348	-0.047316811
## relationSelf	0.022184126	0.122578104
## Class.ASD	-0.050600707	-0.097209558
##	ethnicityTurkish	ethnicityWhite.European
## gender	0.026861802	-0.0764502640
## ethnicityAsian	-0.042726547	-0.3242407464
## ethnicityBlack	-0.023682170	-0.1797178819
## ethnicityHispanic	-0.012735218	-0.0966442816
## ethnicityLatino	-0.015876833	-0.1204851930
## ethnicityMiddle.Eastern.	-0.036002491	-0.2732136165
## ethnicityOthers	-0.043356738	-0.3290231058
## ethnicityPasifika	-0.011697755	-0.0887712483
## ethnicitySouth.Asian	-0.021554977	-0.1635751642
## ethnicityTurkish	1.000000000	-0.0653263311
## ethnicityWhite.European	-0.065326331	1.0000000000
## jundice	-0.030608296	0.0927409012
## austim	0.010287533	0.1785901509
## contry_of_resAfghanistan	-0.012735218	-0.0742141298
## contry_of_resAmericanSamoa	-0.004955817	-0.0376084141
## contry_of_resAngola	-0.003501795	0.0536046435
## contry_of_resArgentina	-0.004955817	-0.0376084141
## contry_of_resArmenia	0.285372439	-0.0376084141
## contry_of_resAruba	-0.003501795	-0.0265742169
## contry_of_resAustralia	0.061922719	0.2366707543
## contry_of_resAustria	-0.007018602	0.0672637367
## contry_of_resAzerbaijan	-0.003501795	-0.0265742169
## contry_of_resBahamas	-0.004955817	-0.0376084141
## contry_of_resBangladesh	-0.006073945	0.0002637688
## contry_of_resBelgium	-0.006073945	0.0929785086
## contry_of_resBolivia	-0.003501795	-0.0265742169
## contry_of_resBrazil	-0.010565760	-0.0801808306
## contry_of_resBurundi	-0.003501795	-0.0265742169
## contry_of_resCanada	-0.013699687	0.0215065902
## contry_of_resChile	-0.003501795	-0.0265742169
## contry_of_resChina	-0.003501795	-0.0265742169
## contry_of_resCosta.Rica	-0.003501795	-0.0265742169
## contry_of_resCyprus	-0.003501795	0.0536046435
## contry_of_resCzech.Republic	-0.003501795	0.0536046435
## contry_of_resEcuador	-0.003501795	-0.0265742169
## contry_of_resEgypt	-0.006073945	-0.0460936011
## contry_of_resEthiopia	-0.004955817	-0.0376084141
## contry_of_resFinland	-0.003501795	0.0536046435
## contry_of_resFrance	-0.011697755	-0.0644223651
## contry_of_resGermany	-0.007018602	0.1074391036
## contry_of_resHong.Kong	-0.003501795	-0.0265742169
## contry_of_resIceland	-0.004955817	-0.0376084141

## contry_of_resIndia	-0.033481627	-0.2446190843
## contry_of_resIndonesia	-0.003501795	-0.0265742169
## contry_of_resIran	-0.009304727	-0.0706111739
## contry_of_resIraq	-0.003501795	-0.0265742169
## contry_of_resIreland	-0.007852655	0.1202065850
## contry_of_resItaly	-0.007852655	0.0842469130
## contry_of_resJapan	-0.003501795	-0.0265742169
## contry_of_resJordan	-0.024834547	-0.1884629743
## contry_of_resKazakhstan	-0.006073945	-0.0460936011
## contry_of_resLebanon	-0.003501795	-0.0265742169
## contry_of_resMalaysia	-0.007852655	-0.0236321031
## contry_of_resMexico	-0.009954325	-0.0755408075
## contry_of_resNepal	-0.003501795	-0.0265742169
## contry_of_resNetherlands	-0.011145322	0.1450910560
## contry_of_resNew.Zealand	-0.033247593	-0.0715096586
## contry_of_resNicaragua	-0.003501795	-0.0265742169
## contry_of_resNiger	-0.003501795	-0.0265742169
## contry_of_resOman	-0.003501795	-0.0265742169
## contry_of_resPakistan	-0.006073945	-0.0460936011
## contry_of_resPhilippines	-0.007018602	-0.0532623641
## contry_of_resPortugal	-0.003501795	0.0536046435
## contry_of_resRomania	-0.006073945	0.0929785086
## contry_of_resRussia	-0.009304727	-0.0401760695
## contry_of_resSaudi.Arabia	-0.007018602	-0.0532623641
## contry_of_resSerbia	-0.003501795	0.0536046435
## contry_of_resSierra.Leone	-0.003501795	-0.0265742169
## contry_of_resSouth.Africa	-0.004955817	0.0758624663
## contry_of_resSpain	-0.006073945	-0.0460936011
## contry_of_resSri.Lanka	-0.013225547	-0.1003652656
## contry_of_resSweden	-0.004955817	0.0758624663
## contry_of_resTonga	-0.003501795	-0.0265742169
## contry_of_resTurkey	0.406791817	-0.0265742169
## contry_of_resUkraine	-0.004955817	0.0191270261
## contry_of_resUnited.Arab.Emirates	0.062632746	-0.2558527903
## contry_of_resUnited.Kingdom	-0.032539991	0.3820024649
## contry_of_resUnited.States	0.001497210	0.2677829269
## contry_of_resUruguay	-0.003501795	0.0536046435
## contry_of_resViet.Nam	-0.007852655	-0.0595917751
## used_app_before	-0.012226744	-0.0461273244
## relationHealth.care.professional	-0.007018602	-0.0130869972
## relationOthers	0.006486144	-0.2607749711
## relationParent	-0.025673652	-0.0419931285
## relationRelative	-0.018896717	0.0420271651
## relationSelf	0.019534533	0.2160807837
## Class.ASD	-0.021383205	0.3159693883
##	jundice	austim
## gender	-0.0193473832	-0.089127192
## ethnicityAsian	-0.0638330524	-0.121810618
## ethnicityBlack	-0.0243507262	-0.010011069
## ethnicityHispanic	-0.0097934641	-0.021475763
## ethnicityLatino	0.0585798822	0.137917302
## ethnicityMiddle.Eastern.	-0.0004234826	-0.036549580
## ethnicityOthers	-0.0045748552	-0.091810418
## ethnicityPasifika	-0.0030688062	0.019670220

## ethnicitySouth.Asian	-0.0766422507	-0.051136504
## ethnicityTurkish	-0.0306082960	0.010287533
## ethnicityWhite.European	0.0927409012	0.178590151
## jundice	1.0000000000	0.157641237
## austim	0.1576412369	1.0000000000
## contry_of_resAfghanistan	0.0611839095	0.072883372
## contry_of_resAmericanSamoa	-0.0176212172	-0.020596858
## contry_of_resAngola	0.1144067181	-0.014553801
## contry_of_resArgentina	-0.0176212172	-0.020596858
## contry_of_resArmenia	0.0721448387	0.058961335
## contry_of_resAruba	-0.0124512043	-0.014553801
## contry_of_resAustralia	0.0087058404	0.077283906
## contry_of_resAustria	-0.0249557901	-0.029169998
## contry_of_resAzerbaijan	-0.0124512043	-0.014553801
## contry_of_resBahamas	0.0721448387	0.058961335
## contry_of_resBangladesh	-0.0215969053	0.039761467
## contry_of_resBelgium	-0.0215969053	0.039761467
## contry_of_resBolivia	-0.0124512043	-0.014553801
## contry_of_resBrazil	-0.0375682907	0.144551463
## contry_of_resBurundi	-0.0124512043	-0.014553801
## contry_of_resCanada	-0.0487114802	0.031033923
## contry_of_resChile	-0.0124512043	-0.014553801
## contry_of_resChina	-0.0124512043	-0.014553801
## contry_of_resCosta.Rica	0.1144067181	0.097878309
## contry_of_resCyprus	-0.0124512043	-0.014553801
## contry_of_resCzech.Republic	0.1144067181	-0.014553801
## contry_of_resEcuador	-0.0124512043	-0.014553801
## contry_of_resEgypt	-0.0215969053	0.039761467
## contry_of_resEthiopia	-0.0176212172	-0.020596858
## contry_of_resFinland	-0.0124512043	-0.014553801
## contry_of_resFrance	-0.0415932840	0.019670220
## contry_of_resGermany	-0.0249557901	-0.029169998
## contry_of_resHong.Kong	-0.0124512043	-0.014553801
## contry_of_resIceland	-0.0176212172	-0.020596858
## contry_of_resIndia	-0.0591519415	-0.112609839
## contry_of_resIndonesia	-0.0124512043	-0.014553801
## contry_of_resIran	-0.0330844803	-0.038671355
## contry_of_resIraq	-0.0124512043	-0.014553801
## contry_of_resIreland	-0.0279214011	0.017788632
## contry_of_resItaly	0.0289735119	0.017788632
## contry_of_resJapan	-0.0124512043	-0.014553801
## contry_of_resJordan	0.0074062588	-0.069284476
## contry_of_resKazakhstan	-0.0215969053	-0.025243908
## contry_of_resLebanon	-0.0124512043	-0.014553801
## contry_of_resMalaysia	0.0289735119	0.017788632
## contry_of_resMexico	0.0096821181	-0.001420713
## contry_of_resNepal	-0.0124512043	-0.014553801
## contry_of_resNetherlands	0.0007466337	0.096816079
## contry_of_resNew.Zealand	-0.0579949888	-0.098149731
## contry_of_resNicaragua	0.1144067181	-0.014553801
## contry_of_resNiger	-0.0124512043	-0.014553801
## contry_of_resOman	-0.0124512043	-0.014553801
## contry_of_resPakistan	-0.0215969053	-0.025243908
## contry_of_resPhilippines	-0.0249557901	-0.029169998

## contry_of_resPortugal	-0.0124512043	-0.014553801
## contry_of_resRomania	-0.0215969053	0.039761467
## contry_of_resRussia	-0.0330844803	0.004006765
## contry_of_resSaudi.Arabia	-0.0249557901	-0.029169998
## contry_of_resSerbia	-0.0124512043	-0.014553801
## contry_of_resSierra.Leone	0.1144067181	-0.014553801
## contry_of_resSouth.Africa	0.0721448387	-0.020596858
## contry_of_resSpain	0.0517491064	0.039761467
## contry_of_resSri.Lanka	-0.0470255976	-0.054966666
## contry_of_resSweden	-0.0176212172	0.138519528
## contry_of_resTonga	-0.0124512043	-0.014553801
## contry_of_resTurkey	-0.0124512043	-0.014553801
## contry_of_resUkraine	-0.0176212172	-0.020596858
## contry_of_resUnited.Arab.Emirates	-0.0156151294	-0.100518989
## contry_of_resUnited.Kingdom	0.1445558077	0.095422222
## contry_of_resUnited.States	0.0118322260	0.096595884
## contry_of_resUruguay	0.1144067181	0.097878309
## contry_of_resViet.Nam	-0.0279214011	-0.032636402
## used_app_before	0.0303479261	0.014611796
## relationHealth.care.professional	0.0386091390	0.027166564
## relationOthers	0.0025311362	-0.072113622
## relationParent	0.0947266676	0.107616796
## relationRelative	0.0550529808	0.051474147
## relationSelf	-0.0888121326	-0.033287786
## Class.ASD	0.1019019786	0.177147712
##	contry_of_resAfghanistan	
## gender		0.004510164
## ethnicityAsian		-0.007629473
## ethnicityBlack		-0.035035586
## ethnicityHispanic		-0.018840580
## ethnicityLatino		-0.023488310
## ethnicityMiddle.Eastern.		0.134580990
## ethnicityOthers		0.045972561
## ethnicityPasifika		-0.017305750
## ethnicitySouth.Asian		-0.031888601
## ethnicityTurkish		-0.012735218
## ethnicityWhite.European		-0.074214130
## jundice		0.061183910
## austim		0.072883372
## contry_of_resAfghanistan		1.000000000
## contry_of_resAmericanSamoa		-0.007331674
## contry_of_resAngola		-0.005180582
## contry_of_resArgentina		-0.007331674
## contry_of_resArmenia		-0.007331674
## contry_of_resAruba		-0.005180582
## contry_of_resAustralia		-0.027431886
## contry_of_resAustria		-0.010383375
## contry_of_resAzerbaijan		-0.005180582
## contry_of_resBahamas		-0.007331674
## contry_of_resBangladesh		-0.008985841
## contry_of_resBelgium		-0.008985841
## contry_of_resBolivia		-0.005180582
## contry_of_resBrazil		-0.015631068
## contry_of_resBurundi		-0.005180582

## contry_of_resCanada	-0.020267423
## contry_of_resChile	-0.005180582
## contry_of_resChina	-0.005180582
## contry_of_resCosta.Rica	-0.005180582
## contry_of_resCyprus	-0.005180582
## contry_of_resCzech.Republic	-0.005180582
## contry_of_resEcuador	-0.005180582
## contry_of_resEgypt	-0.008985841
## contry_of_resEthiopia	-0.007331674
## contry_of_resFinland	-0.005180582
## contry_of_resFrance	-0.017305750
## contry_of_resGermany	-0.010383375
## contry_of_resHong.Kong	-0.005180582
## contry_of_resIceland	-0.007331674
## contry_of_resIndia	-0.049532979
## contry_of_resIndonesia	-0.005180582
## contry_of_resIran	-0.013765485
## contry_of_resIraq	-0.005180582
## contry_of_resIreland	-0.011617279
## contry_of_resItaly	-0.011617279
## contry_of_resJapan	-0.005180582
## contry_of_resJordan	-0.036740422
## contry_of_resKazakhstan	-0.008985841
## contry_of_resLebanon	-0.005180582
## contry_of_resMalaysia	-0.011617279
## contry_of_resMexico	-0.014726506
## contry_of_resNepal	-0.005180582
## contry_of_resNetherlands	-0.016488476
## contry_of_resNew.Zealand	-0.049186747
## contry_of_resNicaragua	-0.005180582
## contry_of_resNiger	-0.005180582
## contry_of_resOman	-0.005180582
## contry_of_resPakistan	-0.008985841
## contry_of_resPhilippines	-0.010383375
## contry_of_resPortugal	-0.005180582
## contry_of_resRomania	-0.008985841
## contry_of_resRussia	-0.013765485
## contry_of_resSaudi.Arabia	-0.010383375
## contry_of_resSerbia	-0.005180582
## contry_of_resSierra.Leone	-0.005180582
## contry_of_resSouth.Africa	-0.007331674
## contry_of_resSpain	-0.008985841
## contry_of_resSri.Lanka	-0.019565977
## contry_of_resSweden	-0.007331674
## contry_of_resTonga	-0.005180582
## contry_of_resTurkey	-0.005180582
## contry_of_resUkraine	-0.007331674
## contry_of_resUnited.Arab.Emirates	-0.049877911
## contry_of_resUnited.Kingdom	-0.048139916
## contry_of_resUnited.States	-0.060070375
## contry_of_resUruguay	-0.005180582
## contry_of_resViet.Nam	-0.011617279
## used_app_before	-0.018088341
## relationHealth.care.professional	0.129991868

## relationOthers	0.034785131
## relationParent	0.085254533
## relationRelative	-0.027955950
## relationSelf	-0.087607266
## Class.ASD	-0.035603610
##	contry_of_resAmericanSamoa
## gender	0.051108437
## ethnicityAsian	-0.024597703
## ethnicityBlack	0.097814888
## ethnicityHispanic	-0.007331674
## ethnicityLatino	-0.009140304
## ethnicityMiddle.Eastern.	0.058462695
## ethnicityOthers	-0.024960504
## ethnicityPasifika	-0.006734406
## ethnicitySouth.Asian	-0.012409215
## ethnicityTurkish	-0.004955817
## ethnicityWhite.European	-0.037608414
## jundice	-0.017621217
## austim	-0.020596858
## contry_of_resAfghanistan	-0.007331674
## contry_of_resAmericanSamoa	1.000000000
## contry_of_resAngola	-0.002015986
## contry_of_resArgentina	-0.002853067
## contry_of_resArmenia	-0.002853067
## contry_of_resAruba	-0.002015986
## contry_of_resAustralia	-0.010674917
## contry_of_resAustria	-0.004040614
## contry_of_resAzerbaijan	-0.002015986
## contry_of_resBahamas	-0.002853067
## contry_of_resBangladesh	-0.003496774
## contry_of_resBelgium	-0.003496774
## contry_of_resBolivia	-0.002015986
## contry_of_resBrazil	-0.006082716
## contry_of_resBurundi	-0.002015986
## contry_of_resCanada	-0.007886919
## contry_of_resChile	-0.002015986
## contry_of_resChina	-0.002015986
## contry_of_resCosta.Rica	-0.002015986
## contry_of_resCyprus	-0.002015986
## contry_of_resCzech.Republic	-0.002015986
## contry_of_resEcuador	-0.002015986
## contry_of_resEgypt	-0.003496774
## contry_of_resEthiopia	-0.002853067
## contry_of_resFinland	-0.002015986
## contry_of_resFrance	-0.006734406
## contry_of_resGermany	-0.004040614
## contry_of_resHong.Kong	-0.002015986
## contry_of_resIceland	-0.002853067
## contry_of_resIndia	-0.019275396
## contry_of_resIndonesia	-0.002015986
## contry_of_resIran	-0.005356738
## contry_of_resIraq	-0.002015986
## contry_of_resIreland	-0.004520779
## contry_of_resItaly	-0.004520779

## contry_of_resJapan	-0.002015986	
## contry_of_resJordan	-0.014297266	
## contry_of_resKazakhstan	-0.003496774	
## contry_of_resLebanon	-0.002015986	
## contry_of_resMalaysia	-0.004520779	
## contry_of_resMexico	-0.005730712	
## contry_of_resNepal	-0.002015986	
## contry_of_resNetherlands	-0.006416370	
## contry_of_resNew.Zealand	-0.019140662	
## contry_of_resNicaragua	-0.002015986	
## contry_of_resNiger	-0.002015986	
## contry_of_resOman	-0.002015986	
## contry_of_resPakistan	-0.003496774	
## contry_of_resPhilippines	-0.004040614	
## contry_of_resPortugal	-0.002015986	
## contry_of_resRomania	-0.003496774	
## contry_of_resRussia	-0.005356738	
## contry_of_resSaudi.Arabia	-0.004040614	
## contry_of_resSerbia	-0.002015986	
## contry_of_resSierra.Leone	-0.002015986	
## contry_of_resSouth.Africa	-0.002853067	
## contry_of_resSpain	-0.003496774	
## contry_of_resSri.Lanka	-0.007613957	
## contry_of_resSweden	-0.002853067	
## contry_of_resTonga	-0.002015986	
## contry_of_resTurkey	-0.002015986	
## contry_of_resUkraine	-0.002853067	
## contry_of_resUnited.Arab.Emirates	-0.019409624	
## contry_of_resUnited.Kingdom	-0.018733296	
## contry_of_resUnited.States	-0.023375947	
## contry_of_resUruguay	-0.002015986	
## contry_of_resViet.Nam	-0.004520779	
## used_app_before	-0.007038945	
## relationHealth.care.professional	-0.004040614	
## relationOthers	-0.021751907	
## relationParent	-0.014780339	
## relationRelative	-0.010878853	
## relationSelf	0.031569872	
## Class.ASD	0.027848185	
##	contry_of_resAngola	contry_of_resArgentina
## gender	0.036113373	-0.002357681
## ethnicityAsian	-0.017380810	-0.024597703
## ethnicityBlack	-0.009633713	-0.013633842
## ethnicityHispanic	-0.005180582	-0.007331674
## ethnicityLatino	-0.006458566	-0.009140304
## ethnicityMiddle.Eastern.	-0.014645519	-0.020726659
## ethnicityOthers	-0.017637166	0.114303262
## ethnicityPasifika	-0.004758551	-0.006734406
## ethnicitySouth.Asian	-0.008768388	-0.012409215
## ethnicityTurkish	-0.003501795	-0.004955817
## ethnicityWhite.European	0.053604644	-0.037608414
## jundice	0.114406718	-0.017621217
## austim	-0.014553801	-0.020596858
## contry_of_resAfghanistan	-0.005180582	-0.007331674

## contry_of_resAmericanSamoa	-0.002015986	-0.002853067
## contry_of_resAngola	1.000000000	-0.002015986
## contry_of_resArgentina	-0.002015986	1.000000000
## contry_of_resArmenia	-0.002015986	-0.002853067
## contry_of_resAruba	-0.001424501	-0.002015986
## contry_of_resAustralia	-0.007542928	-0.010674917
## contry_of_resAustria	-0.002855110	-0.004040614
## contry_of_resAzerbaijan	-0.001424501	-0.002015986
## contry_of_resBahamas	-0.002015986	-0.002853067
## contry_of_resBangladesh	-0.002470831	-0.003496774
## contry_of_resBelgium	-0.002470831	-0.003496774
## contry_of_resBolivia	-0.001424501	-0.002015986
## contry_of_resBrazil	-0.004298065	-0.006082716
## contry_of_resBurundi	-0.001424501	-0.002015986
## contry_of_resCanada	-0.005572921	-0.007886919
## contry_of_resChile	-0.001424501	-0.002015986
## contry_of_resChina	-0.001424501	-0.002015986
## contry_of_resCosta.Rica	-0.001424501	-0.002015986
## contry_of_resCyprus	-0.001424501	-0.002015986
## contry_of_resCzech.Republic	-0.001424501	-0.002015986
## contry_of_resEcuador	-0.001424501	-0.002015986
## contry_of_resEgypt	-0.002470831	-0.003496774
## contry_of_resEthiopia	-0.002015986	-0.002853067
## contry_of_resFinland	-0.001424501	-0.002015986
## contry_of_resFrance	-0.004758551	-0.006734406
## contry_of_resGermany	-0.002855110	-0.004040614
## contry_of_resHong.Kong	-0.001424501	-0.002015986
## contry_of_resIceland	-0.002015986	-0.002853067
## contry_of_resIndia	-0.013620052	-0.019275396
## contry_of_resIndonesia	-0.001424501	-0.002015986
## contry_of_resIran	-0.003785087	-0.005356738
## contry_of_resIraq	-0.001424501	-0.002015986
## contry_of_resIreland	-0.003194396	-0.004520779
## contry_of_resItaly	-0.003194396	-0.004520779
## contry_of_resJapan	-0.001424501	-0.002015986
## contry_of_resJordan	-0.010102491	-0.014297266
## contry_of_resKazakhstan	-0.002470831	-0.003496774
## contry_of_resLebanon	-0.001424501	-0.002015986
## contry_of_resMalaysia	-0.003194396	-0.004520779
## contry_of_resMexico	-0.004049338	-0.005730712
## contry_of_resNepal	-0.001424501	-0.002015986
## contry_of_resNetherlands	-0.004533826	-0.006416370
## contry_of_resNew.Zealand	-0.013524849	-0.019140662
## contry_of_resNicaragua	-0.001424501	-0.002015986
## contry_of_resNiger	-0.001424501	-0.002015986
## contry_of_resOman	-0.001424501	-0.002015986
## contry_of_resPakistan	-0.002470831	-0.003496774
## contry_of_resPhilippines	-0.002855110	-0.004040614
## contry_of_resPortugal	-0.001424501	-0.002015986
## contry_of_resRomania	-0.002470831	-0.003496774
## contry_of_resRussia	-0.003785087	-0.005356738
## contry_of_resSaudi.Arabia	-0.002855110	-0.004040614
## contry_of_resSerbia	-0.001424501	-0.002015986
## contry_of_resSierra.Leone	-0.001424501	-0.002015986

## contry_of_resSouth.Africa	-0.002015986	-0.002853067
## contry_of_resSpain	-0.002470831	-0.003496774
## contry_of_resSri.Lanka	-0.005380044	-0.007613957
## contry_of_resSweden	-0.002015986	-0.002853067
## contry_of_resTonga	-0.001424501	-0.002015986
## contry_of_resTurkey	-0.001424501	-0.002015986
## contry_of_resUkraine	-0.002015986	-0.002853067
## contry_of_resUnited.Arab.Emirates	-0.013714898	-0.019409624
## contry_of_resUnited.Kingdom	-0.013237002	-0.018733296
## contry_of_resUnited.States	-0.016517513	-0.023375947
## contry_of_resUruguay	-0.001424501	-0.002015986
## contry_of_resViet.Nam	-0.003194396	-0.004520779
## used_app_before	-0.004973740	-0.007038945
## relationHealth.care.professional	-0.002855110	-0.004040614
## relationOthers	-0.015369962	0.131163998
## relationParent	0.136396439	-0.014780339
## relationRelative	-0.007687030	-0.010878853
## relationSelf	-0.063857897	-0.090373095
## Class.ASD	-0.022886574	0.027848185
##	contry_of_resArmenia	contry_of_resAruba
## gender	0.051108437	0.036113373
## ethnicityAsian	-0.024597703	0.081958289
## ethnicityBlack	-0.013633842	-0.009633713
## ethnicityHispanic	-0.007331674	-0.005180582
## ethnicityLatino	-0.009140304	-0.006458566
## ethnicityMiddle.Eastern.	0.058462695	-0.014645519
## ethnicityOthers	-0.024960504	-0.017637166
## ethnicityPasifika	-0.006734406	-0.004758551
## ethnicitySouth.Asian	-0.012409215	-0.008768388
## ethnicityTurkish	0.285372439	-0.003501795
## ethnicityWhite.European	-0.037608414	-0.026574217
## jundice	0.072144839	-0.012451204
## austim	0.058961335	-0.014553801
## contry_of_resAfghanistan	-0.007331674	-0.005180582
## contry_of_resAmericanSamoa	-0.002853067	-0.002015986
## contry_of_resAngola	-0.002015986	-0.001424501
## contry_of_resArgentina	-0.002853067	-0.002015986
## contry_of_resArmenia	1.000000000	-0.002015986
## contry_of_resAruba	-0.002015986	1.000000000
## contry_of_resAustralia	-0.010674917	-0.007542928
## contry_of_resAustria	-0.004040614	-0.002855110
## contry_of_resAzerbaijan	-0.002015986	-0.001424501
## contry_of_resBahamas	-0.002853067	-0.002015986
## contry_of_resBangladesh	-0.003496774	-0.002470831
## contry_of_resBelgium	-0.003496774	-0.002470831
## contry_of_resBolivia	-0.002015986	-0.001424501
## contry_of_resBrazil	-0.006082716	-0.004298065
## contry_of_resBurundi	-0.002015986	-0.001424501
## contry_of_resCanada	-0.007886919	-0.005572921
## contry_of_resChile	-0.002015986	-0.001424501
## contry_of_resChina	-0.002015986	-0.001424501
## contry_of_resCosta.Rica	-0.002015986	-0.001424501
## contry_of_resCyprus	-0.002015986	-0.001424501
## contry_of_resCzech.Republic	-0.002015986	-0.001424501

## contry_of_resEcuador	-0.002015986	-0.001424501
## contry_of_resEgypt	-0.003496774	-0.002470831
## contry_of_resEthiopia	-0.002853067	-0.002015986
## contry_of_resFinland	-0.002015986	-0.001424501
## contry_of_resFrance	-0.006734406	-0.004758551
## contry_of_resGermany	-0.004040614	-0.002855110
## contry_of_resHong.Kong	-0.002015986	-0.001424501
## contry_of_resIceland	-0.002853067	-0.002015986
## contry_of_resIndia	-0.019275396	-0.013620052
## contry_of_resIndonesia	-0.002015986	-0.001424501
## contry_of_resIran	-0.005356738	-0.003785087
## contry_of_resIraq	-0.002015986	-0.001424501
## contry_of_resIreland	-0.004520779	-0.003194396
## contry_of_resItaly	-0.004520779	-0.003194396
## contry_of_resJapan	-0.002015986	-0.001424501
## contry_of_resJordan	-0.014297266	-0.010102491
## contry_of_resKazakhstan	-0.003496774	-0.002470831
## contry_of_resLebanon	-0.002015986	-0.001424501
## contry_of_resMalaysia	-0.004520779	-0.003194396
## contry_of_resMexico	-0.005730712	-0.004049338
## contry_of_resNepal	-0.002015986	-0.001424501
## contry_of_resNetherlands	-0.006416370	-0.004533826
## contry_of_resNew.Zealand	-0.019140662	-0.013524849
## contry_of_resNicaragua	-0.002015986	-0.001424501
## contry_of_resNiger	-0.002015986	-0.001424501
## contry_of_resOman	-0.002015986	-0.001424501
## contry_of_resPakistan	-0.003496774	-0.002470831
## contry_of_resPhilippines	-0.004040614	-0.002855110
## contry_of_resPortugal	-0.002015986	-0.001424501
## contry_of_resRomania	-0.003496774	-0.002470831
## contry_of_resRussia	-0.005356738	-0.003785087
## contry_of_resSaudi.Arabia	-0.004040614	-0.002855110
## contry_of_resSerbia	-0.002015986	-0.001424501
## contry_of_resSierra.Leone	-0.002015986	-0.001424501
## contry_of_resSouth.Africa	-0.002853067	-0.002015986
## contry_of_resSpain	-0.003496774	-0.002470831
## contry_of_resSri.Lanka	-0.007613957	-0.005380044
## contry_of_resSweden	-0.002853067	-0.002015986
## contry_of_resTonga	-0.002015986	-0.001424501
## contry_of_resTurkey	-0.002015986	-0.001424501
## contry_of_resUkraine	-0.002853067	-0.002015986
## contry_of_resUnited.Arab.Emirates	-0.019409624	-0.013714898
## contry_of_resUnited.Kingdom	-0.018733296	-0.013237002
## contry_of_resUnited.States	-0.023375947	-0.016517513
## contry_of_resUruguay	-0.002015986	-0.001424501
## contry_of_resViet.Nam	-0.004520779	-0.003194396
## used_app_before	0.199143493	-0.004973740
## relationHealth.care.professional	-0.004040614	-0.002855110
## relationOthers	-0.021751907	-0.015369962
## relationParent	-0.014780339	-0.010443831
## relationRelative	0.125689608	-0.007687030
## relationSelf	-0.029401612	0.022307365
## Class.ASD	-0.032389581	-0.022886574
##	contry_of_resAustralia	contry_of_resAustria

## gender	-0.031048802	-0.003339031
## ethnicityAsian	-0.092033745	-0.034836135
## ethnicityBlack	-0.051011817	-0.019308728
## ethnicityHispanic	-0.027431886	-0.010383375
## ethnicityLatino	-0.034198982	-0.012944821
## ethnicityMiddle.Eastern.	-0.077550007	-0.029353826
## ethnicityOthers	-0.074092539	0.013957618
## ethnicityPasifika	0.034444621	-0.009537503
## ethnicitySouth.Asian	-0.046429806	-0.017574369
## ethnicityTurkish	0.061922719	-0.007018602
## ethnicityWhite.European	0.236670754	0.067263737
## jundice	0.008705840	-0.024955790
## austim	0.077283906	-0.029169998
## contry_of_resAfghanistan	-0.027431886	-0.010383375
## contry_of_resAmericanSamoa	-0.010674917	-0.004040614
## contry_of_resAngola	-0.007542928	-0.002855110
## contry_of_resArgentina	-0.010674917	-0.004040614
## contry_of_resArmenia	-0.010674917	-0.004040614
## contry_of_resAruba	-0.007542928	-0.002855110
## contry_of_resAustralia	1.000000000	-0.015118195
## contry_of_resAustria	-0.015118195	1.000000000
## contry_of_resAzerbaijan	-0.007542928	-0.002855110
## contry_of_resBahamas	-0.010674917	-0.004040614
## contry_of_resBangladesh	-0.013083386	-0.004952255
## contry_of_resBelgium	-0.013083386	-0.004952255
## contry_of_resBolivia	-0.007542928	-0.002855110
## contry_of_resBrazil	-0.022758836	-0.008614557
## contry_of_resBurundi	-0.007542928	-0.002855110
## contry_of_resCanada	-0.029509370	-0.011169734
## contry_of_resChile	-0.007542928	-0.002855110
## contry_of_resChina	-0.007542928	-0.002855110
## contry_of_resCosta.Rica	-0.007542928	-0.002855110
## contry_of_resCyprus	-0.007542928	-0.002855110
## contry_of_resCzech.Republic	-0.007542928	-0.002855110
## contry_of_resEcuador	-0.007542928	-0.002855110
## contry_of_resEgypt	-0.013083386	-0.004952255
## contry_of_resEthiopia	-0.010674917	-0.004040614
## contry_of_resFinland	-0.007542928	-0.002855110
## contry_of_resFrance	-0.025197174	-0.009537503
## contry_of_resGermany	-0.015118195	-0.005722461
## contry_of_resHong.Kong	-0.007542928	-0.002855110
## contry_of_resIceland	-0.010674917	-0.004040614
## contry_of_resIndia	-0.072120022	-0.027298496
## contry_of_resIndonesia	-0.007542928	-0.002855110
## contry_of_resIran	-0.020042548	-0.007586401
## contry_of_resIraq	-0.007542928	-0.002855110
## contry_of_resIreland	-0.016914759	-0.006402487
## contry_of_resItaly	-0.016914759	-0.006402487
## contry_of_resJapan	-0.007542928	-0.002855110
## contry_of_resJordan	-0.053494058	-0.020248293
## contry_of_resKazakhstan	-0.013083386	-0.004952255
## contry_of_resLebanon	-0.007542928	-0.002855110
## contry_of_resMalaysia	-0.016914759	-0.006402487
## contry_of_resMexico	-0.021441794	-0.008116037

## contry_of_resNepal	-0.007542928	-0.002855110
## contry_of_resNetherlands	-0.024007222	-0.009087089
## contry_of_resNew.Zealand	-0.071615908	-0.027107682
## contry_of_resNicaragua	-0.007542928	-0.002855110
## contry_of_resNiger	-0.007542928	-0.002855110
## contry_of_resOman	-0.007542928	-0.002855110
## contry_of_resPakistan	-0.013083386	-0.004952255
## contry_of_resPhilippines	-0.015118195	-0.005722461
## contry_of_resPortugal	-0.007542928	-0.002855110
## contry_of_resRomania	-0.013083386	-0.004952255
## contry_of_resRussia	-0.020042548	-0.007586401
## contry_of_resSaudi.Arabia	-0.015118195	-0.005722461
## contry_of_resSerbia	-0.007542928	-0.002855110
## contry_of_resSierra.Leone	-0.007542928	-0.002855110
## contry_of_resSouth.Africa	-0.010674917	-0.004040614
## contry_of_resSpain	-0.013083386	-0.004952255
## contry_of_resSri.Lanka	-0.028488064	-0.010783154
## contry_of_resSweden	-0.010674917	-0.004040614
## contry_of_resTonga	-0.007542928	-0.002855110
## contry_of_resTurkey	-0.007542928	-0.002855110
## contry_of_resUkraine	-0.010674917	-0.004040614
## contry_of_resUnited.Arab.Emirates	-0.072622243	-0.027488594
## contry_of_resUnited.Kingdom	-0.070091722	-0.026530755
## contry_of_resUnited.States	-0.087462472	-0.033105841
## contry_of_resUruguay	-0.007542928	-0.002855110
## contry_of_resViet.Nam	-0.016914759	-0.006402487
## used_app_before	-0.026336626	-0.009968803
## relationHealth.care.professional	-0.015118195	-0.005722461
## relationOthers	-0.081386033	0.023335407
## relationParent	0.002293988	-0.020932438
## relationRelative	-0.002853578	-0.015407016
## relationSelf	0.067425330	0.001535384
## Class.ASD	0.079153044	0.082095008
##	contry_of_resAzerbaijan	contry_of_resBahamas
## gender	0.036113373	-0.002357681
## ethnicityAsian	-0.017380810	0.045695732
## ethnicityBlack	-0.009633713	-0.013633842
## ethnicityHispanic	-0.005180582	-0.007331674
## ethnicityLatino	-0.006458566	-0.009140304
## ethnicityMiddle.Eastern.	-0.014645519	-0.020726659
## ethnicityOthers	0.080767023	0.044671379
## ethnicityPasifika	-0.004758551	-0.006734406
## ethnicitySouth.Asian	-0.008768388	-0.012409215
## ethnicityTurkish	-0.003501795	-0.004955817
## ethnicityWhite.European	-0.026574217	-0.037608414
## jundice	-0.012451204	0.072144839
## austim	-0.014553801	0.058961335
## contry_of_resAfghanistan	-0.005180582	-0.007331674
## contry_of_resAmericanSamoa	-0.002015986	-0.002853067
## contry_of_resAngola	-0.001424501	-0.002015986
## contry_of_resArgentina	-0.002015986	-0.002853067
## contry_of_resArmenia	-0.002015986	-0.002853067
## contry_of_resAruba	-0.001424501	-0.002015986
## contry_of_resAustralia	-0.007542928	-0.010674917

## contry_of_resAustria	-0.002855110	-0.004040614
## contry_of_resAzerbaijan	1.000000000	-0.002015986
## contry_of_resBahamas	-0.002015986	1.000000000
## contry_of_resBangladesh	-0.002470831	-0.003496774
## contry_of_resBelgium	-0.002470831	-0.003496774
## contry_of_resBolivia	-0.001424501	-0.002015986
## contry_of_resBrazil	-0.004298065	-0.006082716
## contry_of_resBurundi	-0.001424501	-0.002015986
## contry_of_resCanada	-0.005572921	-0.007886919
## contry_of_resChile	-0.001424501	-0.002015986
## contry_of_resChina	-0.001424501	-0.002015986
## contry_of_resCosta.Rica	-0.001424501	-0.002015986
## contry_of_resCyprus	-0.001424501	-0.002015986
## contry_of_resCzech.Republic	-0.001424501	-0.002015986
## contry_of_resEcuador	-0.001424501	-0.002015986
## contry_of_resEgypt	-0.002470831	-0.003496774
## contry_of_resEthiopia	-0.002015986	-0.002853067
## contry_of_resFinland	-0.001424501	-0.002015986
## contry_of_resFrance	-0.004758551	-0.006734406
## contry_of_resGermany	-0.002855110	-0.004040614
## contry_of_resHong.Kong	-0.001424501	-0.002015986
## contry_of_resIceland	-0.002015986	-0.002853067
## contry_of_resIndia	-0.013620052	-0.019275396
## contry_of_resIndonesia	-0.001424501	-0.002015986
## contry_of_resIran	-0.003785087	-0.005356738
## contry_of_resIraq	-0.001424501	-0.002015986
## contry_of_resIreland	-0.003194396	-0.004520779
## contry_of_resItaly	-0.003194396	-0.004520779
## contry_of_resJapan	-0.001424501	-0.002015986
## contry_of_resJordan	-0.010102491	-0.014297266
## contry_of_resKazakhstan	-0.002470831	-0.003496774
## contry_of_resLebanon	-0.001424501	-0.002015986
## contry_of_resMalaysia	-0.003194396	-0.004520779
## contry_of_resMexico	-0.004049338	-0.005730712
## contry_of_resNepal	-0.001424501	-0.002015986
## contry_of_resNetherlands	-0.004533826	-0.006416370
## contry_of_resNew.Zealand	-0.013524849	-0.019140662
## contry_of_resNicaragua	-0.001424501	-0.002015986
## contry_of_resNiger	-0.001424501	-0.002015986
## contry_of_resOman	-0.001424501	-0.002015986
## contry_of_resPakistan	-0.002470831	-0.003496774
## contry_of_resPhilippines	-0.002855110	-0.004040614
## contry_of_resPortugal	-0.001424501	-0.002015986
## contry_of_resRomania	-0.002470831	-0.003496774
## contry_of_resRussia	-0.003785087	-0.005356738
## contry_of_resSaudi.Arabia	-0.002855110	-0.004040614
## contry_of_resSerbia	-0.001424501	-0.002015986
## contry_of_resSierra.Leone	-0.001424501	-0.002015986
## contry_of_resSouth.Africa	-0.002015986	-0.002853067
## contry_of_resSpain	-0.002470831	-0.003496774
## contry_of_resSri.Lanka	-0.005380044	-0.007613957
## contry_of_resSweden	-0.002015986	-0.002853067
## contry_of_resTonga	-0.001424501	-0.002015986
## contry_of_resTurkey	-0.001424501	-0.002015986

## contry_of_resUkraine	-0.002015986	-0.002853067
## contry_of_resUnited.Arab.Emirates	-0.013714898	-0.019409624
## contry_of_resUnited.Kingdom	-0.013237002	-0.018733296
## contry_of_resUnited.States	-0.016517513	-0.023375947
## contry_of_resUruguay	-0.001424501	-0.002015986
## contry_of_resViet.Nam	-0.003194396	-0.004520779
## used_app_before	-0.004973740	-0.007038945
## relationHealth.care.professional	-0.002855110	0.351028367
## relationOthers	0.092680870	0.054706045
## relationParent	-0.010443831	-0.014780339
## relationRelative	-0.007687030	-0.010878853
## relationSelf	-0.063857897	-0.090373095
## Class.ASD	-0.022886574	0.027848185
##	contry_of_resBangladesh	contry_of_resBelgium
## gender	-0.0247326558	0.062639490
## ethnicityAsian	0.0272879096	-0.030147421
## ethnicityBlack	-0.0167099006	-0.016709901
## ethnicityHispanic	-0.0089858412	-0.008985841
## ethnicityLatino	-0.0112025336	-0.011202534
## ethnicityMiddle.Eastern.	-0.0254029946	-0.025402995
## ethnicityOthers	-0.0305920777	-0.030592078
## ethnicityPasifika	-0.0082538183	-0.008253818
## ethnicitySouth.Asian	0.0837901853	-0.015208975
## ethnicityTurkish	-0.0060739448	-0.006073945
## ethnicityWhite.European	0.0002637688	0.092978509
## jundice	-0.0215969053	-0.021596905
## austim	0.0397614672	0.039761467
## contry_of_resAfghanistan	-0.0089858412	-0.008985841
## contry_of_resAmericanSamoa	-0.0034967743	-0.003496774
## contry_of_resAngola	-0.0024708311	-0.002470831
## contry_of_resArgentina	-0.0034967743	-0.003496774
## contry_of_resArmenia	-0.0034967743	-0.003496774
## contry_of_resAruba	-0.0024708311	-0.002470831
## contry_of_resAustralia	-0.0130833856	-0.013083386
## contry_of_resAustria	-0.0049522552	-0.004952255
## contry_of_resAzerbaijan	-0.0024708311	-0.002470831
## contry_of_resBahamas	-0.0034967743	-0.003496774
## contry_of_resBangladesh	1.0000000000	-0.004285714
## contry_of_resBelgium	-0.0042857143	1.000000000
## contry_of_resBolivia	-0.0024708311	-0.002470831
## contry_of_resBrazil	-0.0074550941	-0.007455094
## contry_of_resBurundi	-0.0024708311	-0.002470831
## contry_of_resCanada	-0.0096663612	-0.009666361
## contry_of_resChile	-0.0024708311	-0.002470831
## contry_of_resChina	-0.0024708311	-0.002470831
## contry_of_resCosta.Rica	-0.0024708311	-0.002470831
## contry_of_resCyprus	-0.0024708311	-0.002470831
## contry_of_resCzech.Republic	-0.0024708311	-0.002470831
## contry_of_resEcuador	-0.0024708311	-0.002470831
## contry_of_resEgypt	-0.0042857143	-0.004285714
## contry_of_resEthiopia	-0.0034967743	-0.003496774
## contry_of_resFinland	-0.0024708311	-0.002470831
## contry_of_resFrance	-0.0082538183	-0.008253818
## contry_of_resGermany	-0.0049522552	-0.004952255

## contry_of_resHong.Kong	-0.0024708311	-0.002470831
## contry_of_resIceland	-0.0034967743	-0.003496774
## contry_of_resIndia	-0.0236242987	-0.023624299
## contry_of_resIndonesia	-0.0024708311	-0.002470831
## contry_of_resIran	-0.0065653216	-0.006565322
## contry_of_resIraq	-0.0024708311	-0.002470831
## contry_of_resIreland	-0.0055407544	-0.005540754
## contry_of_resItaly	-0.0055407544	-0.005540754
## contry_of_resJapan	-0.0024708311	-0.002470831
## contry_of_resJordan	-0.0175230063	-0.017523006
## contry_of_resKazakhstan	-0.0042857143	-0.004285714
## contry_of_resLebanon	-0.0024708311	-0.002470831
## contry_of_resMalaysia	-0.0055407544	-0.005540754
## contry_of_resMexico	-0.0070236716	-0.007023672
## contry_of_resNepal	-0.0024708311	-0.002470831
## contry_of_resNetherlands	-0.0078640269	-0.007864027
## contry_of_resNew.Zealand	-0.0234591665	-0.023459166
## contry_of_resNicaragua	-0.0024708311	-0.002470831
## contry_of_resNiger	-0.0024708311	-0.002470831
## contry_of_resOman	-0.0024708311	-0.002470831
## contry_of_resPakistan	-0.0042857143	-0.004285714
## contry_of_resPhilippines	-0.0049522552	-0.004952255
## contry_of_resPortugal	-0.0024708311	-0.002470831
## contry_of_resRomania	-0.0042857143	-0.004285714
## contry_of_resRussia	-0.0065653216	-0.006565322
## contry_of_resSaudi.Arabia	-0.0049522552	-0.004952255
## contry_of_resSerbia	-0.0024708311	-0.002470831
## contry_of_resSierra.Leone	-0.0024708311	-0.002470831
## contry_of_resSouth.Africa	-0.0034967743	-0.003496774
## contry_of_resSpain	-0.0042857143	-0.004285714
## contry_of_resSri.Lanka	-0.0093318127	-0.009331813
## contry_of_resSweden	-0.0034967743	-0.003496774
## contry_of_resTonga	-0.0024708311	-0.002470831
## contry_of_resTurkey	-0.0024708311	-0.002470831
## contry_of_resUkraine	-0.0034967743	-0.003496774
## contry_of_resUnited.Arab.Emirates	-0.0237888109	-0.023788811
## contry_of_resUnited.Kingdom	-0.0229598900	-0.022959890
## contry_of_resUnited.States	-0.0286500130	-0.028650013
## contry_of_resUruguay	-0.0024708311	-0.002470831
## contry_of_resViet.Nam	-0.0055407544	-0.005540754
## used_app_before	-0.0086270677	-0.008627068
## relationHealth.care.professional	-0.0049522552	-0.004952255
## relationOthers	-0.0266595584	-0.026659558
## relationParent	-0.0181150701	-0.018115070
## relationRelative	-0.0133333333	-0.013333333
## relationSelf	0.0386926469	0.038692647
## Class.ASD	0.0095217505	0.009521751
##		
## gender	contry_of_resBolivia	contry_of_resBrazil
## ethnicityAsian	-0.039445261	0.007638924
## ethnicityBlack	-0.017380810	-0.052442100
## ethnicityHispanic	-0.009633713	0.076536218
## ethnicityLatino	-0.005180582	-0.015631068
## ethnicityMiddle.Eastern.	0.220560023	0.437159555
## ethnicityMiddle.Eastern.	-0.014645519	-0.044189067

## ethnicityOthers	-0.017637166	-0.020225679
## ethnicityPasifika	-0.004758551	-0.014357698
## ethnicitySouth.Asian	-0.008768388	-0.026456345
## ethnicityTurkish	-0.003501795	-0.010565760
## ethnicityWhite.European	-0.026574217	-0.080180831
## jundice	-0.012451204	-0.037568291
## austim	-0.014553801	0.144551463
## contry_of_resAfghanistan	-0.005180582	-0.015631068
## contry_of_resAmericanSamoa	-0.002015986	-0.006082716
## contry_of_resAngola	-0.001424501	-0.004298065
## contry_of_resArgentina	-0.002015986	-0.006082716
## contry_of_resArmenia	-0.002015986	-0.006082716
## contry_of_resAruba	-0.001424501	-0.004298065
## contry_of_resAustralia	-0.007542928	-0.022758836
## contry_of_resAustria	-0.002855110	-0.008614557
## contry_of_resAzerbaijan	-0.001424501	-0.004298065
## contry_of_resBahamas	-0.002015986	-0.006082716
## contry_of_resBangladesh	-0.002470831	-0.007455094
## contry_of_resBelgium	-0.002470831	-0.007455094
## contry_of_resBolivia	1.000000000	-0.004298065
## contry_of_resBrazil	-0.004298065	1.000000000
## contry_of_resBurundi	-0.001424501	-0.004298065
## contry_of_resCanada	-0.005572921	-0.016814847
## contry_of_resChile	-0.001424501	-0.004298065
## contry_of_resChina	-0.001424501	-0.004298065
## contry_of_resCosta.Rica	-0.001424501	-0.004298065
## contry_of_resCyprus	-0.001424501	-0.004298065
## contry_of_resCzech.Republic	-0.001424501	-0.004298065
## contry_of_resEcuador	-0.001424501	-0.004298065
## contry_of_resEgypt	-0.002470831	-0.007455094
## contry_of_resEthiopia	-0.002015986	-0.006082716
## contry_of_resFinland	-0.001424501	-0.004298065
## contry_of_resFrance	-0.004758551	-0.014357698
## contry_of_resGermany	-0.002855110	-0.008614557
## contry_of_resHong.Kong	-0.001424501	-0.004298065
## contry_of_resIceland	-0.002015986	-0.006082716
## contry_of_resIndia	-0.013620052	-0.041094986
## contry_of_resIndonesia	-0.001424501	-0.004298065
## contry_of_resIran	-0.003785087	-0.011420521
## contry_of_resIraq	-0.001424501	-0.004298065
## contry_of_resIreland	-0.003194396	-0.009638264
## contry_of_resItaly	-0.003194396	-0.009638264
## contry_of_resJapan	-0.001424501	-0.004298065
## contry_of_resJordan	-0.010102491	-0.030481654
## contry_of_resKazakhstan	-0.002470831	-0.007455094
## contry_of_resLebanon	-0.001424501	-0.004298065
## contry_of_resMalaysia	-0.003194396	-0.009638264
## contry_of_resMexico	-0.004049338	-0.012217831
## contry_of_resNepal	-0.001424501	-0.004298065
## contry_of_resNetherlands	-0.004533826	-0.013679647
## contry_of_resNew.Zealand	-0.013524849	-0.040807735
## contry_of_resNicaragua	-0.001424501	-0.004298065
## contry_of_resNiger	-0.001424501	-0.004298065
## contry_of_resOman	-0.001424501	-0.004298065

## contry_of_resPakistan	-0.002470831	-0.007455094
## contry_of_resPhilippines	-0.002855110	-0.008614557
## contry_of_resPortugal	-0.001424501	-0.004298065
## contry_of_resRomania	-0.002470831	-0.007455094
## contry_of_resRussia	-0.003785087	-0.011420521
## contry_of_resSaudi.Arabia	-0.002855110	-0.008614557
## contry_of_resSerbia	-0.001424501	-0.004298065
## contry_of_resSierra.Leone	-0.001424501	-0.004298065
## contry_of_resSouth.Africa	-0.002015986	-0.006082716
## contry_of_resSpain	-0.002470831	-0.007455094
## contry_of_resSri.Lanka	-0.005380044	-0.016232893
## contry_of_resSweden	-0.002015986	-0.006082716
## contry_of_resTonga	-0.001424501	-0.004298065
## contry_of_resTurkey	-0.001424501	-0.004298065
## contry_of_resUkraine	-0.002015986	-0.006082716
## contry_of_resUnited.Arab.Emirates	-0.013714898	-0.041381159
## contry_of_resUnited.Kingdom	-0.013237002	-0.039939233
## contry_of_resUnited.States	-0.016517513	-0.049837326
## contry_of_resUruguay	-0.001424501	-0.004298065
## contry_of_resViet.Nam	-0.003194396	-0.009638264
## used_app_before	-0.004973740	0.180361590
## relationHealth.care.professional	-0.002855110	-0.008614557
## relationOthers	-0.015369962	-0.010150947
## relationParent	-0.010443831	0.017716500
## relationRelative	0.185312329	-0.023193626
## relationSelf	-0.063857897	0.009533062
## Class.ASD	-0.022886574	0.073641704
##	contry_of_resBurundi	contry_of_resCanada
## gender	-0.039445261	-0.055784116
## ethnicityAsian	-0.017380810	-0.042088137
## ethnicityBlack	-0.009633713	0.085545079
## ethnicityHispanic	-0.005180582	-0.020267423
## ethnicityLatino	-0.006458566	-0.025267138
## ethnicityMiddle.Eastern.	0.097265346	-0.028108282
## ethnicityOthers	-0.017637166	0.007995232
## ethnicityPasifika	-0.004758551	-0.018616357
## ethnicitySouth.Asian	-0.008768388	0.010354606
## ethnicityTurkish	-0.003501795	-0.013699687
## ethnicityWhite.European	-0.026574217	0.021506590
## jundice	-0.012451204	-0.048711480
## austim	-0.014553801	0.031033923
## contry_of_resAfghanistan	-0.005180582	-0.020267423
## contry_of_resAmericanSamoa	-0.002015986	-0.007886919
## contry_of_resAngola	-0.001424501	-0.005572921
## contry_of_resArgentina	-0.002015986	-0.007886919
## contry_of_resArmenia	-0.002015986	-0.007886919
## contry_of_resAruba	-0.001424501	-0.005572921
## contry_of_resAustralia	-0.007542928	-0.029509370
## contry_of_resAustria	-0.002855110	-0.011169734
## contry_of_resAzerbaijan	-0.001424501	-0.005572921
## contry_of_resBahamas	-0.002015986	-0.007886919
## contry_of_resBangladesh	-0.002470831	-0.009666361
## contry_of_resBelgium	-0.002470831	-0.009666361
## contry_of_resBolivia	-0.001424501	-0.005572921

## contry_of_resBrazil	-0.004298065	-0.016814847
## contry_of_resBurundi	1.000000000	-0.005572921
## contry_of_resCanada	-0.005572921	1.000000000
## contry_of_resChile	-0.001424501	-0.005572921
## contry_of_resChina	-0.001424501	-0.005572921
## contry_of_resCosta.Rica	-0.001424501	-0.005572921
## contry_of_resCyprus	-0.001424501	-0.005572921
## contry_of_resCzech.Republic	-0.001424501	-0.005572921
## contry_of_resEcuador	-0.001424501	-0.005572921
## contry_of_resEgypt	-0.002470831	-0.009666361
## contry_of_resEthiopia	-0.002015986	-0.007886919
## contry_of_resFinland	-0.001424501	-0.005572921
## contry_of_resFrance	-0.004758551	-0.018616357
## contry_of_resGermany	-0.002855110	-0.011169734
## contry_of_resHong.Kong	-0.001424501	-0.005572921
## contry_of_resIceland	-0.002015986	-0.007886919
## contry_of_resIndia	-0.013620052	-0.053284234
## contry_of_resIndonesia	-0.001424501	-0.005572921
## contry_of_resIran	-0.003785087	-0.014807980
## contry_of_resIraq	-0.001424501	-0.005572921
## contry_of_resIreland	-0.003194396	-0.012497084
## contry_of_resItaly	-0.003194396	-0.012497084
## contry_of_resJapan	-0.001424501	-0.005572921
## contry_of_resJordan	-0.010102491	-0.039522865
## contry_of_resKazakhstan	-0.002470831	-0.009666361
## contry_of_resLebanon	-0.001424501	-0.005572921
## contry_of_resMalaysia	-0.003194396	-0.012497084
## contry_of_resMexico	-0.004049338	-0.015841781
## contry_of_resNepal	-0.001424501	-0.005572921
## contry_of_resNetherlands	-0.004533826	-0.017737189
## contry_of_resNew.Zealand	-0.013524849	-0.052911781
## contry_of_resNicaragua	-0.001424501	-0.005572921
## contry_of_resNiger	-0.001424501	-0.005572921
## contry_of_resOman	-0.001424501	-0.005572921
## contry_of_resPakistan	-0.002470831	-0.009666361
## contry_of_resPhilippines	-0.002855110	-0.011169734
## contry_of_resPortugal	-0.001424501	-0.005572921
## contry_of_resRomania	-0.002470831	-0.009666361
## contry_of_resRussia	-0.003785087	-0.014807980
## contry_of_resSaudi.Arabia	-0.002855110	-0.011169734
## contry_of_resSerbia	-0.001424501	-0.005572921
## contry_of_resSierra.Leone	-0.001424501	-0.005572921
## contry_of_resSouth.Africa	-0.002015986	-0.007886919
## contry_of_resSpain	-0.002470831	-0.009666361
## contry_of_resSri.Lanka	-0.005380044	-0.021047757
## contry_of_resSweden	-0.002015986	-0.007886919
## contry_of_resTonga	-0.001424501	-0.005572921
## contry_of_resTurkey	-0.001424501	-0.005572921
## contry_of_resUkraine	-0.002015986	-0.007886919
## contry_of_resUnited.Arab.Emirates	-0.013714898	-0.053655289
## contry_of_resUnited.Kingdom	-0.013237002	-0.051785671
## contry_of_resUnited.States	-0.016517513	-0.064619654
## contry_of_resUruguay	-0.001424501	-0.005572921
## contry_of_resViet.Nam	-0.003194396	-0.012497084

## used_app_before	-0.004973740	0.056536926
## relationHealth.care.professional	-0.002855110	-0.011169734
## relationOthers	-0.015369962	-0.060130215
## relationParent	0.136396439	-0.002560451
## relationRelative	-0.007687030	-0.030073124
## relationSelf	-0.063857897	0.064797663
## Class.ASD	-0.022886574	0.132488949
##	contry_of_resChile	contry_of_resChina
## gender	-0.039445261	-0.039445261
## ethnicityAsian	-0.017380810	0.081958289
## ethnicityBlack	-0.009633713	-0.009633713
## ethnicityHispanic	-0.005180582	-0.005180582
## ethnicityLatino	0.220560023	-0.006458566
## ethnicityMiddle.Eastern.	-0.014645519	-0.014645519
## ethnicityOthers	-0.017637166	-0.017637166
## ethnicityPasifika	-0.004758551	-0.004758551
## ethnicitySouth.Asian	-0.008768388	-0.008768388
## ethnicityTurkish	-0.003501795	-0.003501795
## ethnicityWhite.European	-0.026574217	-0.026574217
## jundice	-0.012451204	-0.012451204
## austim	-0.014553801	-0.014553801
## contry_of_resAfghanistan	-0.005180582	-0.005180582
## contry_of_resAmericanSamoa	-0.002015986	-0.002015986
## contry_of_resAngola	-0.001424501	-0.001424501
## contry_of_resArgentina	-0.002015986	-0.002015986
## contry_of_resArmenia	-0.002015986	-0.002015986
## contry_of_resAruba	-0.001424501	-0.001424501
## contry_of_resAustralia	-0.007542928	-0.007542928
## contry_of_resAustria	-0.002855110	-0.002855110
## contry_of_resAzerbaijan	-0.001424501	-0.001424501
## contry_of_resBahamas	-0.002015986	-0.002015986
## contry_of_resBangladesh	-0.002470831	-0.002470831
## contry_of_resBelgium	-0.002470831	-0.002470831
## contry_of_resBolivia	-0.001424501	-0.001424501
## contry_of_resBrazil	-0.004298065	-0.004298065
## contry_of_resBurundi	-0.001424501	-0.001424501
## contry_of_resCanada	-0.005572921	-0.005572921
## contry_of_resChile	1.000000000	-0.001424501
## contry_of_resChina	-0.001424501	1.000000000
## contry_of_resCosta.Rica	-0.001424501	-0.001424501
## contry_of_resCyprus	-0.001424501	-0.001424501
## contry_of_resCzech.Republic	-0.001424501	-0.001424501
## contry_of_resEcuador	-0.001424501	-0.001424501
## contry_of_resEgypt	-0.002470831	-0.002470831
## contry_of_resEthiopia	-0.002015986	-0.002015986
## contry_of_resFinland	-0.001424501	-0.001424501
## contry_of_resFrance	-0.004758551	-0.004758551
## contry_of_resGermany	-0.002855110	-0.002855110
## contry_of_resHong.Kong	-0.001424501	-0.001424501
## contry_of_resIceland	-0.002015986	-0.002015986
## contry_of_resIndia	-0.013620052	-0.013620052
## contry_of_resIndonesia	-0.001424501	-0.001424501
## contry_of_resIran	-0.003785087	-0.003785087
## contry_of_resIraq	-0.001424501	-0.001424501

## contry_of_resIreland	-0.003194396	-0.003194396
## contry_of_resItaly	-0.003194396	-0.003194396
## contry_of_resJapan	-0.001424501	-0.001424501
## contry_of_resJordan	-0.010102491	-0.010102491
## contry_of_resKazakhstan	-0.002470831	-0.002470831
## contry_of_resLebanon	-0.001424501	-0.001424501
## contry_of_resMalaysia	-0.003194396	-0.003194396
## contry_of_resMexico	-0.004049338	-0.004049338
## contry_of_resNepal	-0.001424501	-0.001424501
## contry_of_resNetherlands	-0.004533826	-0.004533826
## contry_of_resNew.Zealand	-0.013524849	-0.013524849
## contry_of_resNicaragua	-0.001424501	-0.001424501
## contry_of_resNiger	-0.001424501	-0.001424501
## contry_of_resOman	-0.001424501	-0.001424501
## contry_of_resPakistan	-0.002470831	-0.002470831
## contry_of_resPhilippines	-0.002855110	-0.002855110
## contry_of_resPortugal	-0.001424501	-0.001424501
## contry_of_resRomania	-0.002470831	-0.002470831
## contry_of_resRussia	-0.003785087	-0.003785087
## contry_of_resSaudi.Arabia	-0.002855110	-0.002855110
## contry_of_resSerbia	-0.001424501	-0.001424501
## contry_of_resSierra.Leone	-0.001424501	-0.001424501
## contry_of_resSouth.Africa	-0.002015986	-0.002015986
## contry_of_resSpain	-0.002470831	-0.002470831
## contry_of_resSri.Lanka	-0.005380044	-0.005380044
## contry_of_resSweden	-0.002015986	-0.002015986
## contry_of_resTonga	-0.001424501	-0.001424501
## contry_of_resTurkey	-0.001424501	-0.001424501
## contry_of_resUkraine	-0.002015986	-0.002015986
## contry_of_resUnited.Arab.Emirates	-0.013714898	-0.013714898
## contry_of_resUnited.Kingdom	-0.013237002	-0.013237002
## contry_of_resUnited.States	-0.016517513	-0.016517513
## contry_of_resUruguay	-0.001424501	-0.001424501
## contry_of_resViet.Nam	-0.003194396	-0.003194396
## used_app_before	-0.004973740	-0.004973740
## relationHealth.care.professional	-0.002855110	-0.002855110
## relationOthers	-0.015369962	-0.015369962
## relationParent	-0.010443831	-0.010443831
## relationRelative	-0.007687030	-0.007687030
## relationSelf	0.022307365	0.022307365
## Class.ASD	-0.022886574	0.062241794
##	contry_of_resCosta.Rica	contry_of_resCyprus
## gender	0.036113373	-0.039445261
## ethnicityAsian	-0.017380810	-0.017380810
## ethnicityBlack	-0.009633713	-0.009633713
## ethnicityHispanic	-0.005180582	-0.005180582
## ethnicityLatino	0.220560023	-0.006458566
## ethnicityMiddle.Eastern.	-0.014645519	-0.014645519
## ethnicityOthers	-0.017637166	-0.017637166
## ethnicityPasifika	-0.004758551	-0.004758551
## ethnicitySouth.Asian	-0.008768388	-0.008768388
## ethnicityTurkish	-0.003501795	-0.003501795
## ethnicityWhite.European	-0.026574217	0.053604644
## jundice	0.114406718	-0.012451204

## austim	0.097878309	-0.014553801
## contry_of_resAfghanistan	-0.005180582	-0.005180582
## contry_of_resAmericanSamoa	-0.002015986	-0.002015986
## contry_of_resAngola	-0.001424501	-0.001424501
## contry_of_resArgentina	-0.002015986	-0.002015986
## contry_of_resArmenia	-0.002015986	-0.002015986
## contry_of_resAruba	-0.001424501	-0.001424501
## contry_of_resAustralia	-0.007542928	-0.007542928
## contry_of_resAustria	-0.002855110	-0.002855110
## contry_of_resAzerbaijan	-0.001424501	-0.001424501
## contry_of_resBahamas	-0.002015986	-0.002015986
## contry_of_resBangladesh	-0.002470831	-0.002470831
## contry_of_resBelgium	-0.002470831	-0.002470831
## contry_of_resBolivia	-0.001424501	-0.001424501
## contry_of_resBrazil	-0.004298065	-0.004298065
## contry_of_resBurundi	-0.001424501	-0.001424501
## contry_of_resCanada	-0.005572921	-0.005572921
## contry_of_resChile	-0.001424501	-0.001424501
## contry_of_resChina	-0.001424501	-0.001424501
## contry_of_resCosta.Rica	1.000000000	-0.001424501
## contry_of_resCyprus	-0.001424501	1.000000000
## contry_of_resCzech.Republic	-0.001424501	-0.001424501
## contry_of_resEcuador	-0.001424501	-0.001424501
## contry_of_resEgypt	-0.002470831	-0.002470831
## contry_of_resEthiopia	-0.002015986	-0.002015986
## contry_of_resFinland	-0.001424501	-0.001424501
## contry_of_resFrance	-0.004758551	-0.004758551
## contry_of_resGermany	-0.002855110	-0.002855110
## contry_of_resHong.Kong	-0.001424501	-0.001424501
## contry_of_resIceland	-0.002015986	-0.002015986
## contry_of_resIndia	-0.013620052	-0.013620052
## contry_of_resIndonesia	-0.001424501	-0.001424501
## contry_of_resIran	-0.003785087	-0.003785087
## contry_of_resIraq	-0.001424501	-0.001424501
## contry_of_resIreland	-0.003194396	-0.003194396
## contry_of_resItaly	-0.003194396	-0.003194396
## contry_of_resJapan	-0.001424501	-0.001424501
## contry_of_resJordan	-0.010102491	-0.010102491
## contry_of_resKazakhstan	-0.002470831	-0.002470831
## contry_of_resLebanon	-0.001424501	-0.001424501
## contry_of_resMalaysia	-0.003194396	-0.003194396
## contry_of_resMexico	-0.004049338	-0.004049338
## contry_of_resNepal	-0.001424501	-0.001424501
## contry_of_resNetherlands	-0.004533826	-0.004533826
## contry_of_resNew.Zealand	-0.013524849	-0.013524849
## contry_of_resNicaragua	-0.001424501	-0.001424501
## contry_of_resNiger	-0.001424501	-0.001424501
## contry_of_resOman	-0.001424501	-0.001424501
## contry_of_resPakistan	-0.002470831	-0.002470831
## contry_of_resPhilippines	-0.002855110	-0.002855110
## contry_of_resPortugal	-0.001424501	-0.001424501
## contry_of_resRomania	-0.002470831	-0.002470831
## contry_of_resRussia	-0.003785087	-0.003785087
## contry_of_resSaudi.Arabia	-0.002855110	-0.002855110

## contry_of_resSerbia	-0.001424501	-0.001424501
## contry_of_resSierra.Leone	-0.001424501	-0.001424501
## contry_of_resSouth.Africa	-0.002015986	-0.002015986
## contry_of_resSpain	-0.002470831	-0.002470831
## contry_of_resSri.Lanka	-0.005380044	-0.005380044
## contry_of_resSweden	-0.002015986	-0.002015986
## contry_of_resTonga	-0.001424501	-0.001424501
## contry_of_resTurkey	-0.001424501	-0.001424501
## contry_of_resUkraine	-0.002015986	-0.002015986
## contry_of_resUnited.Arab.Emirates	-0.013714898	-0.013714898
## contry_of_resUnited.Kingdom	-0.013237002	-0.013237002
## contry_of_resUnited.States	-0.016517513	-0.016517513
## contry_of_resUruguay	-0.001424501	-0.001424501
## contry_of_resViet.Nam	-0.003194396	-0.003194396
## used_app_before	-0.004973740	-0.004973740
## relationHealth.care.professional	-0.002855110	-0.002855110
## relationOthers	-0.015369962	-0.015369962
## relationParent	0.136396439	-0.010443831
## relationRelative	-0.007687030	-0.007687030
## relationSelf	-0.063857897	0.022307365
## Class.ASD	-0.022886574	0.062241794
##	contry_of_resCzech.Republic	
## gender	-0.039445261	
## ethnicityAsian	-0.017380810	
## ethnicityBlack	-0.009633713	
## ethnicityHispanic	-0.005180582	
## ethnicityLatino	-0.006458566	
## ethnicityMiddle.Eastern.	-0.014645519	
## ethnicityOthers	-0.017637166	
## ethnicityPasifika	-0.004758551	
## ethnicitySouth.Asian	-0.008768388	
## ethnicityTurkish	-0.003501795	
## ethnicityWhite.European	0.053604644	
## jundice	0.114406718	
## austim	-0.014553801	
## contry_of_resAfghanistan	-0.005180582	
## contry_of_resAmericanSamoa	-0.002015986	
## contry_of_resAngola	-0.001424501	
## contry_of_resArgentina	-0.002015986	
## contry_of_resArmenia	-0.002015986	
## contry_of_resAruba	-0.001424501	
## contry_of_resAustralia	-0.007542928	
## contry_of_resAustria	-0.002855110	
## contry_of_resAzerbaijan	-0.001424501	
## contry_of_resBahamas	-0.002015986	
## contry_of_resBangladesh	-0.002470831	
## contry_of_resBelgium	-0.002470831	
## contry_of_resBolivia	-0.001424501	
## contry_of_resBrazil	-0.004298065	
## contry_of_resBurundi	-0.001424501	
## contry_of_resCanada	-0.005572921	
## contry_of_resChile	-0.001424501	
## contry_of_resChina	-0.001424501	
## contry_of_resCosta.Rica	-0.001424501	

## contry_of_resCyprus	-0.001424501
## contry_of_resCzech.Republic	1.000000000
## contry_of_resEcuador	-0.001424501
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## contry_of_resEthiopia	-0.002015986
## contry_of_resFinland	-0.001424501
## contry_of_resFrance	-0.004758551
## contry_of_resGermany	-0.002855110
## contry_of_resHong.Kong	-0.001424501
## contry_of_resIceland	-0.002015986
## contry_of_resIndia	-0.013620052
## contry_of_resIndonesia	-0.001424501
## contry_of_resIran	-0.003785087
## contry_of_resIraq	-0.001424501
## contry_of_resIreland	-0.003194396
## contry_of_resItaly	-0.003194396
## contry_of_resJapan	-0.001424501
## contry_of_resJordan	-0.010102491
## contry_of_resKazakhstan	-0.002470831
## contry_of_resLebanon	-0.001424501
## contry_of_resMalaysia	-0.003194396
## contry_of_resMexico	-0.004049338
## contry_of_resNepal	-0.001424501
## contry_of_resNetherlands	-0.004533826
## contry_of_resNew.Zealand	-0.013524849
## contry_of_resNicaragua	-0.001424501
## contry_of_resNiger	-0.001424501
## contry_of_resOman	-0.001424501
## contry_of_resPakistan	-0.002470831
## contry_of_resPhilippines	-0.002855110
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## contry_of_resSaudi.Arabia	-0.002855110
## contry_of_resSerbia	-0.001424501
## contry_of_resSierra.Leone	-0.001424501
## contry_of_resSouth.Africa	-0.002015986
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## contry_of_resSri.Lanka	-0.005380044
## contry_of_resSweden	-0.002015986
## contry_of_resTonga	-0.001424501
## contry_of_resTurkey	-0.001424501
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## contry_of_resUnited.States	-0.016517513
## contry_of_resUruguay	-0.001424501
## contry_of_resViet.Nam	-0.003194396
## used_app_before	-0.004973740
## relationHealth.care.professional	-0.002855110
## relationOthers	-0.015369962
## relationParent	-0.010443831
## relationRelative	-0.007687030
## relationSelf	0.022307365

## Class.ASD	-0.022886574	
##	contry_of_resEcuador	contry_of_resEgypt
## gender	0.036113373	-0.024732656
## ethnicityAsian	-0.017380810	-0.030147421
## ethnicityBlack	-0.009633713	-0.016709901
## ethnicityHispanic	-0.005180582	-0.008985841
## ethnicityLatino	0.220560023	-0.011202534
## ethnicityMiddle.Eastern.	-0.014645519	0.104005014
## ethnicityOthers	-0.017637166	0.026302712
## ethnicityPasifika	-0.004758551	-0.008253818
## ethnicitySouth.Asian	-0.008768388	-0.015208975
## ethnicityTurkish	-0.003501795	-0.006073945
## ethnicityWhite.European	-0.026574217	-0.046093601
## jundice	-0.012451204	-0.021596905
## austim	-0.014553801	0.039761467
## contry_of_resAfghanistan	-0.005180582	-0.008985841
## contry_of_resAmericanSamoa	-0.002015986	-0.003496774
## contry_of_resAngola	-0.001424501	-0.002470831
## contry_of_resArgentina	-0.002015986	-0.003496774
## contry_of_resArmenia	-0.002015986	-0.003496774
## contry_of_resAruba	-0.001424501	-0.002470831
## contry_of_resAustralia	-0.007542928	-0.013083386
## contry_of_resAustria	-0.002855110	-0.004952255
## contry_of_resAzerbaijan	-0.001424501	-0.002470831
## contry_of_resBahamas	-0.002015986	-0.003496774
## contry_of_resBangladesh	-0.002470831	-0.004285714
## contry_of_resBelgium	-0.002470831	-0.004285714
## contry_of_resBolivia	-0.001424501	-0.002470831
## contry_of_resBrazil	-0.004298065	-0.007455094
## contry_of_resBurundi	-0.001424501	-0.002470831
## contry_of_resCanada	-0.005572921	-0.009666361
## contry_of_resChile	-0.001424501	-0.002470831
## contry_of_resChina	-0.001424501	-0.002470831
## contry_of_resCosta.Rica	-0.001424501	-0.002470831
## contry_of_resCyprus	-0.001424501	-0.002470831
## contry_of_resCzech.Republic	-0.001424501	-0.002470831
## contry_of_resEcuador	1.000000000	-0.002470831
## contry_of_resEgypt	-0.002470831	1.000000000
## contry_of_resEthiopia	-0.002015986	-0.003496774
## contry_of_resFinland	-0.001424501	-0.002470831
## contry_of_resFrance	-0.004758551	-0.008253818
## contry_of_resGermany	-0.002855110	-0.004952255
## contry_of_resHong.Kong	-0.001424501	-0.002470831
## contry_of_resIceland	-0.002015986	-0.003496774
## contry_of_resIndia	-0.013620052	-0.023624299
## contry_of_resIndonesia	-0.001424501	-0.002470831
## contry_of_resIran	-0.003785087	-0.006565322
## contry_of_resIraq	-0.001424501	-0.002470831
## contry_of_resIreland	-0.003194396	-0.005540754
## contry_of_resItaly	-0.003194396	-0.005540754
## contry_of_resJapan	-0.001424501	-0.002470831
## contry_of_resJordan	-0.010102491	-0.017523006
## contry_of_resKazakhstan	-0.002470831	-0.004285714
## contry_of_resLebanon	-0.001424501	-0.002470831

## contry_of_resMalaysia	-0.003194396	-0.005540754
## contry_of_resMexico	-0.004049338	-0.007023672
## contry_of_resNepal	-0.001424501	-0.002470831
## contry_of_resNetherlands	-0.004533826	-0.007864027
## contry_of_resNew.Zealand	-0.013524849	-0.023459166
## contry_of_resNicaragua	-0.001424501	-0.002470831
## contry_of_resNiger	-0.001424501	-0.002470831
## contry_of_resOman	-0.001424501	-0.002470831
## contry_of_resPakistan	-0.002470831	-0.004285714
## contry_of_resPhilippines	-0.002855110	-0.004952255
## contry_of_resPortugal	-0.001424501	-0.002470831
## contry_of_resRomania	-0.002470831	-0.004285714
## contry_of_resRussia	-0.003785087	-0.006565322
## contry_of_resSaudi.Arabia	-0.002855110	-0.004952255
## contry_of_resSerbia	-0.001424501	-0.002470831
## contry_of_resSierra.Leone	-0.001424501	-0.002470831
## contry_of_resSouth.Africa	-0.002015986	-0.003496774
## contry_of_resSpain	-0.002470831	-0.004285714
## contry_of_resSri.Lanka	-0.005380044	-0.009331813
## contry_of_resSweden	-0.002015986	-0.003496774
## contry_of_resTonga	-0.001424501	-0.002470831
## contry_of_resTurkey	-0.001424501	-0.002470831
## contry_of_resUkraine	-0.002015986	-0.003496774
## contry_of_resUnited.Arab.Emirates	-0.013714898	-0.023788811
## contry_of_resUnited.Kingdom	-0.013237002	-0.022959890
## contry_of_resUnited.States	-0.016517513	-0.028650013
## contry_of_resUruguay	-0.001424501	-0.002470831
## contry_of_resViet.Nam	-0.003194396	-0.005540754
## used_app_before	-0.004973740	-0.008627068
## relationHealth.care.professional	-0.002855110	-0.004952255
## relationOthers	-0.015369962	0.035812673
## relationParent	-0.010443831	-0.018115070
## relationRelative	-0.007687030	-0.013333333
## relationSelf	0.022307365	-0.011125908
## Class.ASD	-0.022886574	-0.039697298
##	contry_of_resEthiopia	contry_of_resFinland
## gender	0.051108437	0.036113373
## ethnicityAsian	-0.024597703	-0.017380810
## ethnicityBlack	0.209263618	-0.009633713
## ethnicityHispanic	-0.007331674	-0.005180582
## ethnicityLatino	-0.009140304	-0.006458566
## ethnicityMiddle.Eastern.	-0.020726659	-0.014645519
## ethnicityOthers	-0.024960504	-0.017637166
## ethnicityPasifika	-0.006734406	-0.004758551
## ethnicitySouth.Asian	-0.012409215	-0.008768388
## ethnicityTurkish	-0.004955817	-0.003501795
## ethnicityWhite.European	-0.037608414	0.053604644
## jundice	-0.017621217	-0.012451204
## austim	-0.020596858	-0.014553801
## contry_of_resAfghanistan	-0.007331674	-0.005180582
## contry_of_resAmericanSamoa	-0.002853067	-0.002015986
## contry_of_resAngola	-0.002015986	-0.001424501
## contry_of_resArgentina	-0.002853067	-0.002015986
## contry_of_resArmenia	-0.002853067	-0.002015986

## contry_of_resAruba	-0.002015986	-0.001424501
## contry_of_resAustralia	-0.010674917	-0.007542928
## contry_of_resAustria	-0.004040614	-0.002855110
## contry_of_resAzerbaijan	-0.002015986	-0.001424501
## contry_of_resBahamas	-0.002853067	-0.002015986
## contry_of_resBangladesh	-0.003496774	-0.002470831
## contry_of_resBelgium	-0.003496774	-0.002470831
## contry_of_resBolivia	-0.002015986	-0.001424501
## contry_of_resBrazil	-0.006082716	-0.004298065
## contry_of_resBurundi	-0.002015986	-0.001424501
## contry_of_resCanada	-0.007886919	-0.005572921
## contry_of_resChile	-0.002015986	-0.001424501
## contry_of_resChina	-0.002015986	-0.001424501
## contry_of_resCosta.Rica	-0.002015986	-0.001424501
## contry_of_resCyprus	-0.002015986	-0.001424501
## contry_of_resCzech.Republic	-0.002015986	-0.001424501
## contry_of_resEcuador	-0.002015986	-0.001424501
## contry_of_resEgypt	-0.003496774	-0.002470831
## contry_of_resEthiopia	1.000000000	-0.002015986
## contry_of_resFinland	-0.002015986	1.000000000
## contry_of_resFrance	-0.006734406	-0.004758551
## contry_of_resGermany	-0.004040614	-0.002855110
## contry_of_resHong.Kong	-0.002015986	-0.001424501
## contry_of_resIceland	-0.002853067	-0.002015986
## contry_of_resIndia	-0.019275396	-0.013620052
## contry_of_resIndonesia	-0.002015986	-0.001424501
## contry_of_resIran	-0.005356738	-0.003785087
## contry_of_resIraq	-0.002015986	-0.001424501
## contry_of_resIreland	-0.004520779	-0.003194396
## contry_of_resItaly	-0.004520779	-0.003194396
## contry_of_resJapan	-0.002015986	-0.001424501
## contry_of_resJordan	-0.014297266	-0.010102491
## contry_of_resKazakhstan	-0.003496774	-0.002470831
## contry_of_resLebanon	-0.002015986	-0.001424501
## contry_of_resMalaysia	-0.004520779	-0.003194396
## contry_of_resMexico	-0.005730712	-0.004049338
## contry_of_resNepal	-0.002015986	-0.001424501
## contry_of_resNetherlands	-0.006416370	-0.004533826
## contry_of_resNew.Zealand	-0.019140662	-0.013524849
## contry_of_resNicaragua	-0.002015986	-0.001424501
## contry_of_resNiger	-0.002015986	-0.001424501
## contry_of_resOman	-0.002015986	-0.001424501
## contry_of_resPakistan	-0.003496774	-0.002470831
## contry_of_resPhilippines	-0.004040614	-0.002855110
## contry_of_resPortugal	-0.002015986	-0.001424501
## contry_of_resRomania	-0.003496774	-0.002470831
## contry_of_resRussia	-0.005356738	-0.003785087
## contry_of_resSaudi.Arabia	-0.004040614	-0.002855110
## contry_of_resSerbia	-0.002015986	-0.001424501
## contry_of_resSierra.Leone	-0.002015986	-0.001424501
## contry_of_resSouth.Africa	-0.002853067	-0.002015986
## contry_of_resSpain	-0.003496774	-0.002470831
## contry_of_resSri.Lanka	-0.007613957	-0.005380044
## contry_of_resSweden	-0.002853067	-0.002015986

## contry_of_resTonga	-0.002015986	-0.001424501
## contry_of_resTurkey	-0.002015986	-0.001424501
## contry_of_resUkraine	-0.002853067	-0.002015986
## contry_of_resUnited.Arab.Emirates	-0.019409624	-0.013714898
## contry_of_resUnited.Kingdom	-0.018733296	-0.013237002
## contry_of_resUnited.States	-0.023375947	-0.016517513
## contry_of_resUruguay	-0.002015986	-0.001424501
## contry_of_resViet.Nam	-0.004520779	-0.003194396
## used_app_before	-0.007038945	-0.004973740
## relationHealth.care.professional	0.351028367	-0.002855110
## relationOthers	-0.021751907	-0.015369962
## relationParent	-0.014780339	-0.010443831
## relationRelative	-0.010878853	0.185312329
## relationSelf	-0.029401612	-0.063857897
## Class.ASD	-0.032389581	0.062241794
##	contry_of_resFrance	contry_of_resGermany
## gender	-0.062929600	-0.003339031
## ethnicityAsian	-0.058060645	-0.034836135
## ethnicityBlack	0.350457989	-0.019308728
## ethnicityHispanic	-0.017305750	-0.010383375
## ethnicityLatino	-0.021574858	-0.012944821
## ethnicityMiddle.Eastern.	0.019047251	-0.029353826
## ethnicityOthers	-0.058917005	-0.035349948
## ethnicityPasifika	-0.015895954	-0.009537503
## ethnicitySouth.Asian	-0.029290827	-0.017574369
## ethnicityTurkish	-0.011697755	-0.007018602
## ethnicityWhite.European	-0.064422365	0.107439104
## jundice	-0.041593284	-0.024955790
## austim	0.019670220	-0.029169998
## contry_of_resAfghanistan	-0.017305750	-0.010383375
## contry_of_resAmericanSamoa	-0.006734406	-0.004040614
## contry_of_resAngola	-0.004758551	-0.002855110
## contry_of_resArgentina	-0.006734406	-0.004040614
## contry_of_resArmenia	-0.006734406	-0.004040614
## contry_of_resAruba	-0.004758551	-0.002855110
## contry_of_resAustralia	-0.025197174	-0.015118195
## contry_of_resAustria	-0.009537503	-0.005722461
## contry_of_resAzerbaijan	-0.004758551	-0.002855110
## contry_of_resBahamas	-0.006734406	-0.004040614
## contry_of_resBangladesh	-0.008253818	-0.004952255
## contry_of_resBelgium	-0.008253818	-0.004952255
## contry_of_resBolivia	-0.004758551	-0.002855110
## contry_of_resBrazil	-0.014357698	-0.008614557
## contry_of_resBurundi	-0.004758551	-0.002855110
## contry_of_resCanada	-0.018616357	-0.011169734
## contry_of_resChile	-0.004758551	-0.002855110
## contry_of_resChina	-0.004758551	-0.002855110
## contry_of_resCosta.Rica	-0.004758551	-0.002855110
## contry_of_resCyprus	-0.004758551	-0.002855110
## contry_of_resCzech.Republic	-0.004758551	-0.002855110
## contry_of_resEcuador	-0.004758551	-0.002855110
## contry_of_resEgypt	-0.008253818	-0.004952255
## contry_of_resEthiopia	-0.006734406	-0.004040614
## contry_of_resFinland	-0.004758551	-0.002855110

## contry_of_resFrance	1.000000000	-0.009537503
## contry_of_resGermany	-0.009537503	1.000000000
## contry_of_resHong.Kong	-0.004758551	-0.002855110
## contry_of_resIceland	-0.006734406	-0.004040614
## contry_of_resIndia	-0.045497823	-0.027298496
## contry_of_resIndonesia	-0.004758551	-0.002855110
## contry_of_resIran	-0.012644093	-0.007586401
## contry_of_resIraq	-0.004758551	-0.002855110
## contry_of_resIreland	-0.010670889	-0.006402487
## contry_of_resItaly	-0.010670889	-0.006402487
## contry_of_resJapan	-0.004758551	-0.002855110
## contry_of_resJordan	-0.033747399	-0.020248293
## contry_of_resKazakhstan	-0.008253818	-0.004952255
## contry_of_resLebanon	-0.004758551	-0.002855110
## contry_of_resMalaysia	-0.010670889	-0.006402487
## contry_of_resMexico	-0.013526825	-0.008116037
## contry_of_resNepal	-0.004758551	-0.002855110
## contry_of_resNetherlands	-0.015145258	-0.009087089
## contry_of_resNew.Zealand	-0.045179796	-0.027107682
## contry_of_resNicaragua	-0.004758551	-0.002855110
## contry_of_resNiger	-0.004758551	-0.002855110
## contry_of_resOman	-0.004758551	-0.002855110
## contry_of_resPakistan	-0.008253818	-0.004952255
## contry_of_resPhilippines	-0.009537503	-0.005722461
## contry_of_resPortugal	-0.004758551	-0.002855110
## contry_of_resRomania	-0.008253818	-0.004952255
## contry_of_resRussia	-0.012644093	-0.007586401
## contry_of_resSaudi.Arabia	-0.009537503	-0.005722461
## contry_of_resSerbia	-0.004758551	-0.002855110
## contry_of_resSierra.Leone	-0.004758551	-0.002855110
## contry_of_resSouth.Africa	-0.006734406	-0.004040614
## contry_of_resSpain	-0.008253818	-0.004952255
## contry_of_resSri.Lanka	-0.017972053	-0.010783154
## contry_of_resSweden	-0.006734406	-0.004040614
## contry_of_resTonga	-0.004758551	-0.002855110
## contry_of_resTurkey	-0.004758551	-0.002855110
## contry_of_resUkraine	-0.006734406	-0.004040614
## contry_of_resUnited.Arab.Emirates	-0.045814655	-0.027488594
## contry_of_resUnited.Kingdom	-0.044218244	-0.026530755
## contry_of_resUnited.States	-0.055176800	-0.033105841
## contry_of_resUruguay	-0.004758551	-0.002855110
## contry_of_resViet.Nam	-0.010670889	-0.006402487
## used_app_before	-0.016614791	-0.009968803
## relationHealth.care.professional	-0.009537503	-0.005722461
## relationOthers	-0.051343402	-0.030805818
## relationParent	0.321854422	-0.020932438
## relationRelative	-0.025678546	-0.015407016
## relationSelf	-0.134816951	0.044710368
## Class.ASD	0.052807133	0.039439583
##	contry_of_resHong.Kong	contry_of_resIceland
## gender	-0.039445261	-0.002357681
## ethnicityAsian	-0.017380810	0.045695732
## ethnicityBlack	-0.009633713	-0.013633842
## ethnicityHispanic	-0.005180582	-0.007331674

## ethnicityLatino	-0.006458566	-0.009140304
## ethnicityMiddle.Eastern.	-0.014645519	0.058462695
## ethnicityOthers	0.080767023	-0.024960504
## ethnicityPasifika	-0.004758551	-0.006734406
## ethnicitySouth.Asian	-0.008768388	-0.012409215
## ethnicityTurkish	-0.003501795	-0.004955817
## ethnicityWhite.European	-0.026574217	-0.037608414
## jundice	-0.012451204	-0.017621217
## austim	-0.014553801	-0.020596858
## contry_of_resAfghanistan	-0.005180582	-0.007331674
## contry_of_resAmericanSamoa	-0.002015986	-0.002853067
## contry_of_resAngola	-0.001424501	-0.002015986
## contry_of_resArgentina	-0.002015986	-0.002853067
## contry_of_resArmenia	-0.002015986	-0.002853067
## contry_of_resAruba	-0.001424501	-0.002015986
## contry_of_resAustralia	-0.007542928	-0.010674917
## contry_of_resAustria	-0.002855110	-0.004040614
## contry_of_resAzerbaijan	-0.001424501	-0.002015986
## contry_of_resBahamas	-0.002015986	-0.002853067
## contry_of_resBangladesh	-0.002470831	-0.003496774
## contry_of_resBelgium	-0.002470831	-0.003496774
## contry_of_resBolivia	-0.001424501	-0.002015986
## contry_of_resBrazil	-0.004298065	-0.006082716
## contry_of_resBurundi	-0.001424501	-0.002015986
## contry_of_resCanada	-0.005572921	-0.007886919
## contry_of_resChile	-0.001424501	-0.002015986
## contry_of_resChina	-0.001424501	-0.002015986
## contry_of_resCosta.Rica	-0.001424501	-0.002015986
## contry_of_resCyprus	-0.001424501	-0.002015986
## contry_of_resCzech.Republic	-0.001424501	-0.002015986
## contry_of_resEcuador	-0.001424501	-0.002015986
## contry_of_resEgypt	-0.002470831	-0.003496774
## contry_of_resEthiopia	-0.002015986	-0.002853067
## contry_of_resFinland	-0.001424501	-0.002015986
## contry_of_resFrance	-0.004758551	-0.006734406
## contry_of_resGermany	-0.002855110	-0.004040614
## contry_of_resHong.Kong	1.000000000	-0.002015986
## contry_of_resIceland	-0.002015986	1.000000000
## contry_of_resIndia	-0.013620052	-0.019275396
## contry_of_resIndonesia	-0.001424501	-0.002015986
## contry_of_resIran	-0.003785087	-0.005356738
## contry_of_resIraq	-0.001424501	-0.002015986
## contry_of_resIreland	-0.003194396	-0.004520779
## contry_of_resItaly	-0.003194396	-0.004520779
## contry_of_resJapan	-0.001424501	-0.002015986
## contry_of_resJordan	-0.010102491	-0.014297266
## contry_of_resKazakhstan	-0.002470831	-0.003496774
## contry_of_resLebanon	-0.001424501	-0.002015986
## contry_of_resMalaysia	-0.003194396	-0.004520779
## contry_of_resMexico	-0.004049338	-0.005730712
## contry_of_resNepal	-0.001424501	-0.002015986
## contry_of_resNetherlands	-0.004533826	-0.006416370
## contry_of_resNew.Zealand	-0.013524849	-0.019140662
## contry_of_resNicaragua	-0.001424501	-0.002015986

## contry_of_resNiger	-0.001424501	-0.002015986
## contry_of_resOman	-0.001424501	-0.002015986
## contry_of_resPakistan	-0.002470831	-0.003496774
## contry_of_resPhilippines	-0.002855110	-0.004040614
## contry_of_resPortugal	-0.001424501	-0.002015986
## contry_of_resRomania	-0.002470831	-0.003496774
## contry_of_resRussia	-0.003785087	-0.005356738
## contry_of_resSaudi.Arabia	-0.002855110	-0.004040614
## contry_of_resSerbia	-0.001424501	-0.002015986
## contry_of_resSierra.Leone	-0.001424501	-0.002015986
## contry_of_resSouth.Africa	-0.002015986	-0.002853067
## contry_of_resSpain	-0.002470831	-0.003496774
## contry_of_resSri.Lanka	-0.005380044	-0.007613957
## contry_of_resSweden	-0.002015986	-0.002853067
## contry_of_resTonga	-0.001424501	-0.002015986
## contry_of_resTurkey	-0.001424501	-0.002015986
## contry_of_resUkraine	-0.002015986	-0.002853067
## contry_of_resUnited.Arab.Emirates	-0.013714898	-0.019409624
## contry_of_resUnited.Kingdom	-0.013237002	-0.018733296
## contry_of_resUnited.States	-0.016517513	-0.023375947
## contry_of_resUruguay	-0.001424501	-0.002015986
## contry_of_resViet.Nam	-0.003194396	-0.004520779
## used_app_before	-0.004973740	-0.007038945
## relationHealth.care.professional	-0.002855110	-0.004040614
## relationOthers	0.092680870	-0.021751907
## relationParent	-0.010443831	0.089125445
## relationRelative	-0.007687030	-0.010878853
## relationSelf	-0.063857897	-0.029401612
## Class.ASD	-0.022886574	-0.032389581
##	contry_of_resIndia	contry_of_resIndonesia
## gender	0.05096376	0.036113373
## ethnicityAsian	0.46702300	0.081958289
## ethnicityBlack	-0.09211059	-0.009633713
## ethnicityHispanic	-0.04953298	-0.005180582
## ethnicityLatino	-0.06175213	-0.006458566
## ethnicityMiddle.Eastern.	-0.12681984	-0.014645519
## ethnicityOthers	-0.12217112	-0.017637166
## ethnicityPasifika	-0.04549782	-0.004758551
## ethnicitySouth.Asian	0.34060931	-0.008768388
## ethnicityTurkish	-0.03348163	-0.003501795
## ethnicityWhite.European	-0.24461908	-0.026574217
## jundice	-0.05915194	-0.012451204
## austim	-0.11260984	-0.014553801
## contry_of_resAfghanistan	-0.04953298	-0.005180582
## contry_of_resAmericanSamoa	-0.01927540	-0.002015986
## contry_of_resAngola	-0.01362005	-0.001424501
## contry_of_resArgentina	-0.01927540	-0.002015986
## contry_of_resArmenia	-0.01927540	-0.002015986
## contry_of_resAruba	-0.01362005	-0.001424501
## contry_of_resAustralia	-0.07212002	-0.007542928
## contry_of_resAustria	-0.02729850	-0.002855110
## contry_of_resAzerbaijan	-0.01362005	-0.001424501
## contry_of_resBahamas	-0.01927540	-0.002015986
## contry_of_resBangladesh	-0.02362430	-0.002470831

## contry_of_resBelgium	-0.02362430	-0.002470831
## contry_of_resBolivia	-0.01362005	-0.001424501
## contry_of_resBrazil	-0.04109499	-0.004298065
## contry_of_resBurundi	-0.01362005	-0.001424501
## contry_of_resCanada	-0.05328423	-0.005572921
## contry_of_resChile	-0.01362005	-0.001424501
## contry_of_resChina	-0.01362005	-0.001424501
## contry_of_resCosta.Rica	-0.01362005	-0.001424501
## contry_of_resCyprus	-0.01362005	-0.001424501
## contry_of_resCzech.Republic	-0.01362005	-0.001424501
## contry_of_resEcuador	-0.01362005	-0.001424501
## contry_of_resEgypt	-0.02362430	-0.002470831
## contry_of_resEthiopia	-0.01927540	-0.002015986
## contry_of_resFinland	-0.01362005	-0.001424501
## contry_of_resFrance	-0.04549782	-0.004758551
## contry_of_resGermany	-0.02729850	-0.002855110
## contry_of_resHong.Kong	-0.01362005	-0.001424501
## contry_of_resIceland	-0.01927540	-0.002015986
## contry_of_resIndia	1.00000000	-0.013620052
## contry_of_resIndonesia	-0.01362005	1.000000000
## contry_of_resIran	-0.03619026	-0.003785087
## contry_of_resIraq	-0.01362005	-0.001424501
## contry_of_resIreland	-0.03054250	-0.003194396
## contry_of_resItaly	-0.03054250	-0.003194396
## contry_of_resJapan	-0.01362005	-0.001424501
## contry_of_resJordan	-0.09659270	-0.010102491
## contry_of_resKazakhstan	-0.02362430	-0.002470831
## contry_of_resLebanon	-0.01362005	-0.001424501
## contry_of_resMalaysia	-0.03054250	-0.003194396
## contry_of_resMexico	-0.03871684	-0.004049338
## contry_of_resNepal	-0.01362005	-0.001424501
## contry_of_resNetherlands	-0.04334916	-0.004533826
## contry_of_resNew.Zealand	-0.12931482	-0.013524849
## contry_of_resNicaragua	-0.01362005	-0.001424501
## contry_of_resNiger	-0.01362005	-0.001424501
## contry_of_resOman	-0.01362005	-0.001424501
## contry_of_resPakistan	-0.02362430	-0.002470831
## contry_of_resPhilippines	-0.02729850	-0.002855110
## contry_of_resPortugal	-0.01362005	-0.001424501
## contry_of_resRomania	-0.02362430	-0.002470831
## contry_of_resRussia	-0.03619026	-0.003785087
## contry_of_resSaudi.Arabia	-0.02729850	-0.002855110
## contry_of_resSerbia	-0.01362005	-0.001424501
## contry_of_resSierra.Leone	-0.01362005	-0.001424501
## contry_of_resSouth.Africa	-0.01927540	-0.002015986
## contry_of_resSpain	-0.02362430	-0.002470831
## contry_of_resSri.Lanka	-0.05144009	-0.005380044
## contry_of_resSweden	-0.01927540	-0.002015986
## contry_of_resTonga	-0.01362005	-0.001424501
## contry_of_resTurkey	-0.01362005	-0.001424501
## contry_of_resUkraine	-0.01927540	-0.002015986
## contry_of_resUnited.Arab.Emirates	-0.13113193	-0.013714898
## contry_of_resUnited.Kingdom	-0.12656264	-0.013237002
## contry_of_resUnited.States	-0.15792851	-0.016517513

## contry_of_resUruguay	-0.01362005	-0.001424501
## contry_of_resViet.Nam	-0.03054250	-0.003194396
## used_app_before	-0.04755530	-0.004973740
## relationHealth.care.professional	-0.02729850	-0.002855110
## relationOthers	-0.13420208	-0.015369962
## relationParent	0.00414219	-0.010443831
## relationRelative	-0.05071609	-0.007687030
## relationSelf	0.13191899	0.022307365
## Class.ASD	-0.15853332	-0.022886574
##	contry_of_resIran	contry_of_resIraq
## gender	0.009914024	0.036113373
## ethnicityAsian	-0.046183087	-0.017380810
## ethnicityBlack	-0.025598037	-0.009633713
## ethnicityHispanic	-0.013765485	-0.005180582
## ethnicityLatino	-0.017161255	-0.006458566
## ethnicityMiddle.Eastern.	0.046045460	-0.014645519
## ethnicityOthers	0.139902038	0.080767023
## ethnicityPasifika	-0.012644093	-0.004758551
## ethnicitySouth.Asian	-0.023298756	-0.008768388
## ethnicityTurkish	-0.009304727	-0.003501795
## ethnicityWhite.European	-0.070611174	-0.026574217
## jundice	-0.033084480	-0.012451204
## austim	-0.038671355	-0.014553801
## contry_of_resAfghanistan	-0.013765485	-0.005180582
## contry_of_resAmericanSamoa	-0.005356738	-0.002015986
## contry_of_resAngola	-0.003785087	-0.001424501
## contry_of_resArgentina	-0.005356738	-0.002015986
## contry_of_resArmenia	-0.005356738	-0.002015986
## contry_of_resAruba	-0.003785087	-0.001424501
## contry_of_resAustralia	-0.020042548	-0.007542928
## contry_of_resAustria	-0.007586401	-0.002855110
## contry_of_resAzerbaijan	-0.003785087	-0.001424501
## contry_of_resBahamas	-0.005356738	-0.002015986
## contry_of_resBangladesh	-0.006565322	-0.002470831
## contry_of_resBelgium	-0.006565322	-0.002470831
## contry_of_resBolivia	-0.003785087	-0.001424501
## contry_of_resBrazil	-0.011420521	-0.004298065
## contry_of_resBurundi	-0.003785087	-0.001424501
## contry_of_resCanada	-0.014807980	-0.005572921
## contry_of_resChile	-0.003785087	-0.001424501
## contry_of_resChina	-0.003785087	-0.001424501
## contry_of_resCosta.Rica	-0.003785087	-0.001424501
## contry_of_resCyprus	-0.003785087	-0.001424501
## contry_of_resCzech.Republic	-0.003785087	-0.001424501
## contry_of_resEcuador	-0.003785087	-0.001424501
## contry_of_resEgypt	-0.006565322	-0.002470831
## contry_of_resEthiopia	-0.005356738	-0.002015986
## contry_of_resFinland	-0.003785087	-0.001424501
## contry_of_resFrance	-0.012644093	-0.004758551
## contry_of_resGermany	-0.007586401	-0.002855110
## contry_of_resHong.Kong	-0.003785087	-0.001424501
## contry_of_resIceland	-0.005356738	-0.002015986
## contry_of_resIndia	-0.036190261	-0.013620052
## contry_of_resIndonesia	-0.003785087	-0.001424501

## contry_of_resIran	1.000000000	-0.003785087
## contry_of_resIraq	-0.003785087	1.000000000
## contry_of_resIreland	-0.008487928	-0.003194396
## contry_of_resItaly	-0.008487928	-0.003194396
## contry_of_resJapan	-0.003785087	-0.001424501
## contry_of_resJordan	-0.026843640	-0.010102491
## contry_of_resKazakhstan	-0.006565322	-0.002470831
## contry_of_resLebanon	-0.003785087	-0.001424501
## contry_of_resMalaysia	-0.008487928	-0.003194396
## contry_of_resMexico	-0.010759621	-0.004049338
## contry_of_resNepal	-0.003785087	-0.001424501
## contry_of_resNetherlands	-0.012046969	-0.004533826
## contry_of_resNew.Zealand	-0.035937294	-0.013524849
## contry_of_resNicaragua	-0.003785087	-0.001424501
## contry_of_resNiger	-0.003785087	-0.001424501
## contry_of_resOman	-0.003785087	-0.001424501
## contry_of_resPakistan	-0.006565322	-0.002470831
## contry_of_resPhilippines	-0.007586401	-0.002855110
## contry_of_resPortugal	-0.003785087	-0.001424501
## contry_of_resRomania	-0.006565322	-0.002470831
## contry_of_resRussia	-0.010057471	-0.003785087
## contry_of_resSaudi.Arabia	-0.007586401	-0.002855110
## contry_of_resSerbia	-0.003785087	-0.001424501
## contry_of_resSierra.Leone	-0.003785087	-0.001424501
## contry_of_resSouth.Africa	-0.005356738	-0.002015986
## contry_of_resSpain	-0.006565322	-0.002470831
## contry_of_resSri.Lanka	-0.014295482	-0.005380044
## contry_of_resSweden	-0.005356738	-0.002015986
## contry_of_resTonga	-0.003785087	-0.001424501
## contry_of_resTurkey	-0.003785087	-0.001424501
## contry_of_resUkraine	-0.005356738	-0.002015986
## contry_of_resUnited.Arab.Emirates	-0.036442279	-0.013714898
## contry_of_resUnited.Kingdom	-0.035172448	-0.013237002
## contry_of_resUnited.States	-0.043889195	-0.016517513
## contry_of_resUruguay	-0.003785087	-0.001424501
## contry_of_resViet.Nam	-0.008487928	-0.003194396
## used_app_before	-0.013215877	-0.004973740
## relationHealth.care.professional	-0.007586401	-0.002855110
## relationOthers	0.164235147	0.092680870
## relationParent	-0.027750628	-0.010443831
## relationRelative	-0.020425445	-0.007687030
## relationSelf	-0.104263827	-0.063857897
## Class.ASD	-0.060812624	-0.022886574
##	contry_of_resIreland	contry_of_resItaly
## gender	0.013207943	-0.054567121
## ethnicityAsian	-0.038975873	-0.038975873
## ethnicityBlack	-0.021603273	-0.021603273
## ethnicityHispanic	-0.011617279	-0.011617279
## ethnicityLatino	-0.014483114	0.087333175
## ethnicityMiddle.Eastern.	-0.032842076	-0.032842076
## ethnicityOthers	-0.039550744	-0.039550744
## ethnicityPasifika	-0.010670889	-0.010670889
## ethnicitySouth.Asian	-0.019662812	-0.019662812
## ethnicityTurkish	-0.007852655	-0.007852655

## ethnicityWhite.European	0.120206585	0.084246913
## jundice	-0.027921401	0.028973512
## austin	0.017788632	0.017788632
## contry_of_resAfghanistan	-0.011617279	-0.011617279
## contry_of_resAmericanSamoa	-0.004520779	-0.004520779
## contry_of_resAngola	-0.003194396	-0.003194396
## contry_of_resArgentina	-0.004520779	-0.004520779
## contry_of_resArmenia	-0.004520779	-0.004520779
## contry_of_resAruba	-0.003194396	-0.003194396
## contry_of_resAustralia	-0.016914759	-0.016914759
## contry_of_resAustria	-0.006402487	-0.006402487
## contry_of_resAzerbaijan	-0.003194396	-0.003194396
## contry_of_resBahamas	-0.004520779	-0.004520779
## contry_of_resBangladesh	-0.005540754	-0.005540754
## contry_of_resBelgium	-0.005540754	-0.005540754
## contry_of_resBolivia	-0.003194396	-0.003194396
## contry_of_resBrazil	-0.009638264	-0.009638264
## contry_of_resBurundi	-0.003194396	-0.003194396
## contry_of_resCanada	-0.012497084	-0.012497084
## contry_of_resChile	-0.003194396	-0.003194396
## contry_of_resChina	-0.003194396	-0.003194396
## contry_of_resCosta.Rica	-0.003194396	-0.003194396
## contry_of_resCyprus	-0.003194396	-0.003194396
## contry_of_resCzech.Republic	-0.003194396	-0.003194396
## contry_of_resEcuador	-0.003194396	-0.003194396
## contry_of_resEgypt	-0.005540754	-0.005540754
## contry_of_resEthiopia	-0.004520779	-0.004520779
## contry_of_resFinland	-0.003194396	-0.003194396
## contry_of_resFrance	-0.010670889	-0.010670889
## contry_of_resGermany	-0.006402487	-0.006402487
## contry_of_resHong.Kong	-0.003194396	-0.003194396
## contry_of_resIceland	-0.004520779	-0.004520779
## contry_of_resIndia	-0.030542502	-0.030542502
## contry_of_resIndonesia	-0.003194396	-0.003194396
## contry_of_resIran	-0.008487928	-0.008487928
## contry_of_resIraq	-0.003194396	-0.003194396
## contry_of_resIreland	1.000000000	-0.007163324
## contry_of_resItaly	-0.007163324	1.000000000
## contry_of_resJapan	-0.003194396	-0.003194396
## contry_of_resJordan	-0.022654491	-0.022654491
## contry_of_resKazakhstan	-0.005540754	-0.005540754
## contry_of_resLebanon	-0.003194396	-0.003194396
## contry_of_resMalaysia	-0.007163324	-0.007163324
## contry_of_resMexico	-0.009080502	-0.009080502
## contry_of_resNepal	-0.003194396	-0.003194396
## contry_of_resNetherlands	-0.010166950	-0.010166950
## contry_of_resNew.Zealand	-0.030329012	-0.030329012
## contry_of_resNicaragua	-0.003194396	-0.003194396
## contry_of_resNiger	-0.003194396	-0.003194396
## contry_of_resOman	-0.003194396	-0.003194396
## contry_of_resPakistan	-0.005540754	-0.005540754
## contry_of_resPhilippines	-0.006402487	-0.006402487
## contry_of_resPortugal	-0.003194396	-0.003194396
## contry_of_resRomania	-0.005540754	-0.005540754

## contry_of_resRussia	-0.008487928	-0.008487928
## contry_of_resSaudi.Arabia	-0.006402487	-0.006402487
## contry_of_resSerbia	-0.003194396	-0.003194396
## contry_of_resSierra.Leone	-0.003194396	-0.003194396
## contry_of_resSouth.Africa	-0.004520779	-0.004520779
## contry_of_resSpain	-0.005540754	-0.005540754
## contry_of_resSri.Lanka	-0.012064566	-0.012064566
## contry_of_resSweden	-0.004520779	-0.004520779
## contry_of_resTonga	-0.003194396	-0.003194396
## contry_of_resTurkey	-0.003194396	-0.003194396
## contry_of_resUkraine	-0.004520779	-0.004520779
## contry_of_resUnited.Arab.Emirates	-0.030755190	-0.030755190
## contry_of_resUnited.Kingdom	-0.029683526	-0.029683526
## contry_of_resUnited.States	-0.037039960	-0.037039960
## contry_of_resUruguay	-0.003194396	-0.003194396
## contry_of_resViet.Nam	-0.007163324	-0.007163324
## used_app_before	-0.011153441	-0.011153441
## relationHealth.care.professional	-0.006402487	-0.006402487
## relationOthers	-0.034466615	-0.034466615
## relationParent	-0.023419936	-0.023419936
## relationRelative	0.069320994	-0.017237903
## relationSelf	0.011378973	0.050023506
## Class.ASD	0.025036623	0.101395608
##	contry_of_resJapan	contry_of_resJordan
## gender	0.036113373	-0.006114175
## ethnicityAsian	-0.017380810	-0.123263805
## ethnicityBlack	-0.009633713	-0.068321795
## ethnicityHispanic	-0.005180582	-0.036740422
## ethnicityLatino	-0.006458566	-0.045803815
## ethnicityMiddle.Eastern.	-0.014645519	-0.019432700
## ethnicityOthers	0.080767023	0.498553280
## ethnicityPasifika	-0.004758551	-0.033747399
## ethnicitySouth.Asian	-0.008768388	-0.062184958
## ethnicityTurkish	-0.003501795	-0.024834547
## ethnicityWhite.European	-0.026574217	-0.188462974
## jundice	-0.012451204	0.007406259
## austim	-0.014553801	-0.069284476
## contry_of_resAfghanistan	-0.005180582	-0.036740422
## contry_of_resAmericanSamoa	-0.002015986	-0.014297266
## contry_of_resAngola	-0.001424501	-0.010102491
## contry_of_resArgentina	-0.002015986	-0.014297266
## contry_of_resArmenia	-0.002015986	-0.014297266
## contry_of_resAruba	-0.001424501	-0.010102491
## contry_of_resAustralia	-0.007542928	-0.053494058
## contry_of_resAustria	-0.002855110	-0.020248293
## contry_of_resAzerbaijan	-0.001424501	-0.010102491
## contry_of_resBahamas	-0.002015986	-0.014297266
## contry_of_resBangladesh	-0.002470831	-0.017523006
## contry_of_resBelgium	-0.002470831	-0.017523006
## contry_of_resBolivia	-0.001424501	-0.010102491
## contry_of_resBrazil	-0.004298065	-0.030481654
## contry_of_resBurundi	-0.001424501	-0.010102491
## contry_of_resCanada	-0.005572921	-0.039522865
## contry_of_resChile	-0.001424501	-0.010102491

## contry_of_resChina	-0.001424501	-0.010102491
## contry_of_resCosta.Rica	-0.001424501	-0.010102491
## contry_of_resCyprus	-0.001424501	-0.010102491
## contry_of_resCzech.Republic	-0.001424501	-0.010102491
## contry_of_resEcuador	-0.001424501	-0.010102491
## contry_of_resEgypt	-0.002470831	-0.017523006
## contry_of_resEthiopia	-0.002015986	-0.014297266
## contry_of_resFinland	-0.001424501	-0.010102491
## contry_of_resFrance	-0.004758551	-0.033747399
## contry_of_resGermany	-0.002855110	-0.020248293
## contry_of_resHong.Kong	-0.001424501	-0.010102491
## contry_of_resIceland	-0.002015986	-0.014297266
## contry_of_resIndia	-0.013620052	-0.096592705
## contry_of_resIndonesia	-0.001424501	-0.010102491
## contry_of_resIran	-0.003785087	-0.026843640
## contry_of_resIraq	-0.001424501	-0.010102491
## contry_of_resIreland	-0.003194396	-0.022654491
## contry_of_resItaly	-0.003194396	-0.022654491
## contry_of_resJapan	1.000000000	-0.010102491
## contry_of_resJordan	-0.010102491	1.000000000
## contry_of_resKazakhstan	-0.002470831	-0.017523006
## contry_of_resLebanon	-0.001424501	-0.010102491
## contry_of_resMalaysia	-0.003194396	-0.022654491
## contry_of_resMexico	-0.004049338	-0.028717696
## contry_of_resNepal	-0.001424501	-0.010102491
## contry_of_resNetherlands	-0.004533826	-0.032153658
## contry_of_resNew.Zealand	-0.013524849	-0.095917528
## contry_of_resNicaragua	-0.001424501	-0.010102491
## contry_of_resNiger	-0.001424501	-0.010102491
## contry_of_resOman	-0.001424501	-0.010102491
## contry_of_resPakistan	-0.002470831	-0.017523006
## contry_of_resPhilippines	-0.002855110	-0.020248293
## contry_of_resPortugal	-0.001424501	-0.010102491
## contry_of_resRomania	-0.002470831	-0.017523006
## contry_of_resRussia	-0.003785087	-0.026843640
## contry_of_resSaudi.Arabia	-0.002855110	-0.020248293
## contry_of_resSerbia	-0.001424501	-0.010102491
## contry_of_resSierra.Leone	-0.001424501	-0.010102491
## contry_of_resSouth.Africa	-0.002015986	-0.014297266
## contry_of_resSpain	-0.002470831	-0.017523006
## contry_of_resSri.Lanka	-0.005380044	-0.038154996
## contry_of_resSweden	-0.002015986	-0.014297266
## contry_of_resTonga	-0.001424501	-0.010102491
## contry_of_resTurkey	-0.001424501	-0.010102491
## contry_of_resUkraine	-0.002015986	-0.014297266
## contry_of_resUnited.Arab.Emirates	-0.013714898	-0.097265346
## contry_of_resUnited.Kingdom	-0.013237002	-0.093876136
## contry_of_resUnited.States	-0.016517513	-0.117141350
## contry_of_resUruguay	-0.001424501	-0.010102491
## contry_of_resViet.Nam	-0.003194396	-0.022654491
## used_app_before	-0.004973740	-0.035273504
## relationHealth.care.professional	-0.002855110	-0.020248293
## relationOthers	0.092680870	0.575767632
## relationParent	-0.010443831	-0.074067114

## relationRelative	-0.007687030	-0.054516020
## relationSelf	-0.063857897	-0.387868441
## Class.ASD	-0.022886574	-0.136619934
##	contry_of_resKazakhstan	contry_of_resLebanon
## gender	0.018953417	0.036113373
## ethnicityAsian	-0.030147421	-0.017380810
## ethnicityBlack	-0.016709901	-0.009633713
## ethnicityHispanic	-0.008985841	-0.005180582
## ethnicityLatino	-0.011202534	-0.006458566
## ethnicityMiddle.Eastern.	-0.025402995	-0.014645519
## ethnicityOthers	0.140092292	0.080767023
## ethnicityPasifika	-0.008253818	-0.004758551
## ethnicitySouth.Asian	-0.015208975	-0.008768388
## ethnicityTurkish	-0.006073945	-0.003501795
## ethnicityWhite.European	-0.046093601	-0.026574217
## jundice	-0.021596905	-0.012451204
## austim	-0.025243908	-0.014553801
## contry_of_resAfghanistan	-0.008985841	-0.005180582
## contry_of_resAmericanSamoa	-0.003496774	-0.002015986
## contry_of_resAngola	-0.002470831	-0.001424501
## contry_of_resArgentina	-0.003496774	-0.002015986
## contry_of_resArmenia	-0.003496774	-0.002015986
## contry_of_resAruba	-0.002470831	-0.001424501
## contry_of_resAustralia	-0.013083386	-0.007542928
## contry_of_resAustria	-0.004952255	-0.002855110
## contry_of_resAzerbaijan	-0.002470831	-0.001424501
## contry_of_resBahamas	-0.003496774	-0.002015986
## contry_of_resBangladesh	-0.004285714	-0.002470831
## contry_of_resBelgium	-0.004285714	-0.002470831
## contry_of_resBolivia	-0.002470831	-0.001424501
## contry_of_resBrazil	-0.007455094	-0.004298065
## contry_of_resBurundi	-0.002470831	-0.001424501
## contry_of_resCanada	-0.009666361	-0.005572921
## contry_of_resChile	-0.002470831	-0.001424501
## contry_of_resChina	-0.002470831	-0.001424501
## contry_of_resCosta.Rica	-0.002470831	-0.001424501
## contry_of_resCyprus	-0.002470831	-0.001424501
## contry_of_resCzech.Republic	-0.002470831	-0.001424501
## contry_of_resEcuador	-0.002470831	-0.001424501
## contry_of_resEgypt	-0.004285714	-0.002470831
## contry_of_resEthiopia	-0.003496774	-0.002015986
## contry_of_resFinland	-0.002470831	-0.001424501
## contry_of_resFrance	-0.008253818	-0.004758551
## contry_of_resGermany	-0.004952255	-0.002855110
## contry_of_resHong.Kong	-0.002470831	-0.001424501
## contry_of_resIceland	-0.003496774	-0.002015986
## contry_of_resIndia	-0.023624299	-0.013620052
## contry_of_resIndonesia	-0.002470831	-0.001424501
## contry_of_resIran	-0.006565322	-0.003785087
## contry_of_resIraq	-0.002470831	-0.001424501
## contry_of_resIreland	-0.005540754	-0.003194396
## contry_of_resItaly	-0.005540754	-0.003194396
## contry_of_resJapan	-0.002470831	-0.001424501
## contry_of_resJordan	-0.017523006	-0.010102491

## contry_of_resKazakhstan	1.000000000	-0.002470831
## contry_of_resLebanon	-0.002470831	1.000000000
## contry_of_resMalaysia	-0.005540754	-0.003194396
## contry_of_resMexico	-0.007023672	-0.004049338
## contry_of_resNepal	-0.002470831	-0.001424501
## contry_of_resNetherlands	-0.007864027	-0.004533826
## contry_of_resNew.Zealand	-0.023459166	-0.013524849
## contry_of_resNicaragua	-0.002470831	-0.001424501
## contry_of_resNiger	-0.002470831	-0.001424501
## contry_of_resOman	-0.002470831	-0.001424501
## contry_of_resPakistan	-0.004285714	-0.002470831
## contry_of_resPhilippines	-0.004952255	-0.002855110
## contry_of_resPortugal	-0.002470831	-0.001424501
## contry_of_resRomania	-0.004285714	-0.002470831
## contry_of_resRussia	-0.006565322	-0.003785087
## contry_of_resSaudi.Arabia	-0.004952255	-0.002855110
## contry_of_resSerbia	-0.002470831	-0.001424501
## contry_of_resSierra.Leone	-0.002470831	-0.001424501
## contry_of_resSouth.Africa	-0.003496774	-0.002015986
## contry_of_resSpain	-0.004285714	-0.002470831
## contry_of_resSri.Lanka	-0.009331813	-0.005380044
## contry_of_resSweden	-0.003496774	-0.002015986
## contry_of_resTonga	-0.002470831	-0.001424501
## contry_of_resTurkey	-0.002470831	-0.001424501
## contry_of_resUkraine	-0.003496774	-0.002015986
## contry_of_resUnited.Arab.Emirates	-0.023788811	-0.013714898
## contry_of_resUnited.Kingdom	-0.022959890	-0.013237002
## contry_of_resUnited.States	-0.028650013	-0.016517513
## contry_of_resUruguay	-0.002470831	-0.001424501
## contry_of_resViet.Nam	-0.005540754	-0.003194396
## used_app_before	0.159840393	-0.004973740
## relationHealth.care.professional	-0.004952255	-0.002855110
## relationOthers	0.160757137	0.092680870
## relationParent	-0.018115070	-0.010443831
## relationRelative	-0.013333333	-0.007687030
## relationSelf	-0.110763017	-0.063857897
## Class.ASD	-0.039697298	-0.022886574
##	contry_of_resMalaysia	contry_of_resMexico
## gender	-0.088454653	0.048960738
## ethnicityAsian	0.139235760	-0.049407303
## ethnicityBlack	-0.021603273	0.028579252
## ethnicityHispanic	-0.011617279	0.084819011
## ethnicityLatino	-0.014483114	0.465638946
## ethnicityMiddle.Eastern.	-0.032842076	-0.041631868
## ethnicityOthers	-0.039550744	-0.050136032
## ethnicityPasifika	-0.010670889	-0.013526825
## ethnicitySouth.Asian	-0.019662812	-0.024925330
## ethnicityTurkish	-0.007852655	-0.009954325
## ethnicityWhite.European	-0.023632103	-0.075540807
## jundice	0.028973512	0.009682118
## austim	0.017788632	-0.001420713
## contry_of_resAfghanistan	-0.011617279	-0.014726506
## contry_of_resAmericanSamoa	-0.004520779	-0.005730712
## contry_of_resAngola	-0.003194396	-0.004049338

## contry_of_resArgentina	-0.004520779	-0.005730712
## contry_of_resArmenia	-0.004520779	-0.005730712
## contry_of_resAruba	-0.003194396	-0.004049338
## contry_of_resAustralia	-0.016914759	-0.021441794
## contry_of_resAustria	-0.006402487	-0.008116037
## contry_of_resAzerbaijan	-0.003194396	-0.004049338
## contry_of_resBahamas	-0.004520779	-0.005730712
## contry_of_resBangladesh	-0.005540754	-0.007023672
## contry_of_resBelgium	-0.005540754	-0.007023672
## contry_of_resBolivia	-0.003194396	-0.004049338
## contry_of_resBrazil	-0.009638264	-0.012217831
## contry_of_resBurundi	-0.003194396	-0.004049338
## contry_of_resCanada	-0.012497084	-0.015841781
## contry_of_resChile	-0.003194396	-0.004049338
## contry_of_resChina	-0.003194396	-0.004049338
## contry_of_resCosta.Rica	-0.003194396	-0.004049338
## contry_of_resCyprus	-0.003194396	-0.004049338
## contry_of_resCzech.Republic	-0.003194396	-0.004049338
## contry_of_resEcuador	-0.003194396	-0.004049338
## contry_of_resEgypt	-0.005540754	-0.007023672
## contry_of_resEthiopia	-0.004520779	-0.005730712
## contry_of_resFinland	-0.003194396	-0.004049338
## contry_of_resFrance	-0.010670889	-0.013526825
## contry_of_resGermany	-0.006402487	-0.008116037
## contry_of_resHong.Kong	-0.003194396	-0.004049338
## contry_of_resIceland	-0.004520779	-0.005730712
## contry_of_resIndia	-0.030542502	-0.038716840
## contry_of_resIndonesia	-0.003194396	-0.004049338
## contry_of_resIran	-0.008487928	-0.010759621
## contry_of_resIraq	-0.003194396	-0.004049338
## contry_of_resIreland	-0.007163324	-0.009080502
## contry_of_resItaly	-0.007163324	-0.009080502
## contry_of_resJapan	-0.003194396	-0.004049338
## contry_of_resJordan	-0.022654491	-0.028717696
## contry_of_resKazakhstan	-0.005540754	-0.007023672
## contry_of_resLebanon	-0.003194396	-0.004049338
## contry_of_resMalaysia	1.000000000	-0.009080502
## contry_of_resMexico	-0.009080502	1.000000000
## contry_of_resNepal	-0.003194396	-0.004049338
## contry_of_resNetherlands	-0.010166950	-0.012888013
## contry_of_resNew.Zealand	-0.030329012	-0.038446212
## contry_of_resNicaragua	-0.003194396	-0.004049338
## contry_of_resNiger	-0.003194396	-0.004049338
## contry_of_resOman	-0.003194396	-0.004049338
## contry_of_resPakistan	-0.005540754	-0.007023672
## contry_of_resPhilippines	-0.006402487	-0.008116037
## contry_of_resPortugal	-0.003194396	-0.004049338
## contry_of_resRomania	-0.005540754	-0.007023672
## contry_of_resRussia	-0.008487928	-0.010759621
## contry_of_resSaudi.Arabia	-0.006402487	-0.008116037
## contry_of_resSerbia	-0.003194396	-0.004049338
## contry_of_resSierra.Leone	-0.003194396	-0.004049338
## contry_of_resSouth.Africa	-0.004520779	-0.005730712
## contry_of_resSpain	-0.005540754	-0.007023672

## contry_of_resSri.Lanka	-0.012064566	-0.015293504
## contry_of_resSweden	-0.004520779	-0.005730712
## contry_of_resTonga	-0.003194396	-0.004049338
## contry_of_resTurkey	-0.003194396	-0.004049338
## contry_of_resUkraine	-0.004520779	-0.005730712
## contry_of_resUnited.Arab.Emirates	-0.030755190	-0.038986452
## contry_of_resUnited.Kingdom	-0.029683526	-0.037627970
## contry_of_resUnited.States	-0.037039960	-0.046953266
## contry_of_resUruguay	-0.003194396	-0.004049338
## contry_of_resViet.Nam	-0.007163324	-0.009080502
## used_app_before	0.119527714	-0.014138528
## relationHealth.care.professional	-0.006402487	-0.008116037
## relationOthers	-0.034466615	-0.043691196
## relationParent	-0.023419936	0.074665331
## relationRelative	-0.017237903	-0.021851423
## relationSelf	0.050023506	0.002177600
## Class.ASD	0.101395608	0.055936269
##	contry_of_resNepal	contry_of_resNetherlands
## gender	0.036113373	0.0187461147
## ethnicityAsian	-0.017380810	-0.0553186970
## ethnicityBlack	0.147866293	-0.0306616585
## ethnicityHispanic	-0.005180582	-0.0164884759
## ethnicityLatino	-0.006458566	-0.0205559725
## ethnicityMiddle.Eastern.	-0.014645519	-0.0466129610
## ethnicityOthers	-0.017637166	-0.0248150639
## ethnicityPasifika	-0.004758551	-0.0151452581
## ethnicitySouth.Asian	-0.008768388	-0.0279075503
## ethnicityTurkish	-0.003501795	-0.0111453220
## ethnicityWhite.European	-0.026574217	0.1450910560
## jundice	-0.012451204	0.0007466337
## austim	-0.014553801	0.0968160786
## contry_of_resAfghanistan	-0.005180582	-0.0164884759
## contry_of_resAmericanSamoa	-0.002015986	-0.0064163696
## contry_of_resAngola	-0.001424501	-0.0045338258
## contry_of_resArgentina	-0.002015986	-0.0064163696
## contry_of_resArmenia	-0.002015986	-0.0064163696
## contry_of_resAruba	-0.001424501	-0.0045338258
## contry_of_resAustralia	-0.007542928	-0.0240072225
## contry_of_resAustria	-0.002855110	-0.0090870892
## contry_of_resAzerbaijan	-0.001424501	-0.0045338258
## contry_of_resBahamas	-0.002015986	-0.0064163696
## contry_of_resBangladesh	-0.002470831	-0.0078640269
## contry_of_resBelgium	-0.002470831	-0.0078640269
## contry_of_resBolivia	-0.001424501	-0.0045338258
## contry_of_resBrazil	-0.004298065	-0.0136796474
## contry_of_resBurundi	-0.001424501	-0.0045338258
## contry_of_resCanada	-0.005572921	-0.0177371890
## contry_of_resChile	-0.001424501	-0.0045338258
## contry_of_resChina	-0.001424501	-0.0045338258
## contry_of_resCosta.Rica	-0.001424501	-0.0045338258
## contry_of_resCyprus	-0.001424501	-0.0045338258
## contry_of_resCzech.Republic	-0.001424501	-0.0045338258
## contry_of_resEcuador	-0.001424501	-0.0045338258
## contry_of_resEgypt	-0.002470831	-0.0078640269

## contry_of_resEthiopia	-0.002015986	-0.0064163696
## contry_of_resFinland	-0.001424501	-0.0045338258
## contry_of_resFrance	-0.004758551	-0.0151452581
## contry_of_resGermany	-0.002855110	-0.0090870892
## contry_of_resHong.Kong	-0.001424501	-0.0045338258
## contry_of_resIceland	-0.002015986	-0.0064163696
## contry_of_resIndia	-0.013620052	-0.0433491613
## contry_of_resIndonesia	-0.001424501	-0.0045338258
## contry_of_resIran	-0.003785087	-0.0120469687
## contry_of_resIraq	-0.001424501	-0.0045338258
## contry_of_resIreland	-0.003194396	-0.0101669497
## contry_of_resItaly	-0.003194396	-0.0101669497
## contry_of_resJapan	-0.001424501	-0.0045338258
## contry_of_resJordan	-0.010102491	-0.0321536583
## contry_of_resKazakhstan	-0.002470831	-0.0078640269
## contry_of_resLebanon	-0.001424501	-0.0045338258
## contry_of_resMalaysia	-0.003194396	-0.0101669497
## contry_of_resMexico	-0.004049338	-0.0128880132
## contry_of_resNepal	1.000000000	-0.0045338258
## contry_of_resNetherlands	-0.004533826	1.0000000000
## contry_of_resNew.Zealand	-0.013524849	-0.0430461538
## contry_of_resNicaragua	-0.001424501	-0.0045338258
## contry_of_resNiger	-0.001424501	-0.0045338258
## contry_of_resOman	-0.001424501	-0.0045338258
## contry_of_resPakistan	-0.002470831	-0.0078640269
## contry_of_resPhilippines	-0.002855110	-0.0090870892
## contry_of_resPortugal	-0.001424501	-0.0045338258
## contry_of_resRomania	-0.002470831	-0.0078640269
## contry_of_resRussia	-0.003785087	-0.0120469687
## contry_of_resSaudi.Arabia	-0.002855110	-0.0090870892
## contry_of_resSerbia	-0.001424501	-0.0045338258
## contry_of_resSierra.Leone	-0.001424501	-0.0045338258
## contry_of_resSouth.Africa	-0.002015986	-0.0064163696
## contry_of_resSpain	-0.002470831	-0.0078640269
## contry_of_resSri.Lanka	-0.005380044	-0.0171233128
## contry_of_resSweden	-0.002015986	-0.0064163696
## contry_of_resTonga	-0.001424501	-0.0045338258
## contry_of_resTurkey	-0.001424501	-0.0045338258
## contry_of_resUkraine	-0.002015986	-0.0064163696
## contry_of_resUnited.Arab.Emirates	-0.013714898	-0.0436510313
## contry_of_resUnited.Kingdom	-0.013237002	-0.0421300116
## contry_of_resUnited.States	-0.016517513	-0.0525710436
## contry_of_resUruguay	-0.001424501	-0.0045338258
## contry_of_resViet.Nam	-0.003194396	-0.0101669497
## used_app_before	-0.004973740	-0.0158301482
## relationHealth.care.professional	-0.002855110	0.1506185033
## relationOthers	-0.015369962	-0.0489186797
## relationParent	-0.010443831	-0.0332400596
## relationRelative	-0.007687030	0.0983877142
## relationSelf	0.022307365	-0.0112739647
## Class.ASD	0.062241794	0.0355346336
##	contry_of_resNew.Zealand	
## gender	0.055921506	
## ethnicityAsian	0.141508964	

## ethnicityBlack	-0.035390186
## ethnicityHispanic	-0.049186747
## ethnicityLatino	-0.061320490
## ethnicityMiddle.Eastern.	-0.046079554
## ethnicityOthers	-0.050668453
## ethnicityPasifika	0.171375181
## ethnicitySouth.Asian	0.099641005
## ethnicityTurkish	-0.033247593
## ethnicityWhite.European	-0.071509659
## jundice	-0.057994989
## austim	-0.098149731
## contry_of_resAfghanistan	-0.049186747
## contry_of_resAmericanSamoa	-0.019140662
## contry_of_resAngola	-0.013524849
## contry_of_resArgentina	-0.019140662
## contry_of_resArmenia	-0.019140662
## contry_of_resAruba	-0.013524849
## contry_of_resAustralia	-0.071615908
## contry_of_resAustria	-0.027107682
## contry_of_resAzerbaijan	-0.013524849
## contry_of_resBahamas	-0.019140662
## contry_of_resBangladesh	-0.023459166
## contry_of_resBelgium	-0.023459166
## contry_of_resBolivia	-0.013524849
## contry_of_resBrazil	-0.040807735
## contry_of_resBurundi	-0.013524849
## contry_of_resCanada	-0.052911781
## contry_of_resChile	-0.013524849
## contry_of_resChina	-0.013524849
## contry_of_resCosta.Rica	-0.013524849
## contry_of_resCyprus	-0.013524849
## contry_of_resCzech.Republic	-0.013524849
## contry_of_resEcuador	-0.013524849
## contry_of_resEgypt	-0.023459166
## contry_of_resEthiopia	-0.019140662
## contry_of_resFinland	-0.013524849
## contry_of_resFrance	-0.045179796
## contry_of_resGermany	-0.027107682
## contry_of_resHong.Kong	-0.013524849
## contry_of_resIceland	-0.019140662
## contry_of_resIndia	-0.129314816
## contry_of_resIndonesia	-0.013524849
## contry_of_resIran	-0.035937294
## contry_of_resIraq	-0.013524849
## contry_of_resIreland	-0.030329012
## contry_of_resItaly	-0.030329012
## contry_of_resJapan	-0.013524849
## contry_of_resJordan	-0.095917528
## contry_of_resKazakhstan	-0.023459166
## contry_of_resLebanon	-0.013524849
## contry_of_resMalaysia	-0.030329012
## contry_of_resMexico	-0.038446212
## contry_of_resNepal	-0.013524849
## contry_of_resNetherlands	-0.043046154

## contry_of_resNew.Zealand	1.000000000	
## contry_of_resNicaragua	-0.013524849	
## contry_of_resNiger	-0.013524849	
## contry_of_resOman	-0.013524849	
## contry_of_resPakistan	-0.023459166	
## contry_of_resPhilippines	-0.027107682	
## contry_of_resPortugal	-0.013524849	
## contry_of_resRomania	-0.023459166	
## contry_of_resRussia	-0.035937294	
## contry_of_resSaudi.Arabia	-0.027107682	
## contry_of_resSerbia	-0.013524849	
## contry_of_resSierra.Leone	-0.013524849	
## contry_of_resSouth.Africa	-0.019140662	
## contry_of_resSpain	-0.023459166	
## contry_of_resSri.Lanka	-0.051080528	
## contry_of_resSweden	-0.019140662	
## contry_of_resTonga	-0.013524849	
## contry_of_resTurkey	-0.013524849	
## contry_of_resUkraine	-0.019140662	
## contry_of_resUnited.Arab.Emirates	-0.130215324	
## contry_of_resUnited.Kingdom	-0.125677973	
## contry_of_resUnited.States	-0.156824599	
## contry_of_resUruguay	-0.013524849	
## contry_of_resViet.Nam	-0.030329012	
## used_app_before	-0.047222891	
## relationHealth.care.professional	-0.027107682	
## relationOthers	-0.081811579	
## relationParent	0.005404131	
## relationRelative	0.018637004	
## relationSelf	0.058403917	
## Class.ASD	-0.065749071	
##	contry_of_resNicaragua	contry_of_resNiger
## gender	0.036113373	0.036113373
## ethnicityAsian	-0.017380810	-0.017380810
## ethnicityBlack	-0.009633713	0.147866293
## ethnicityHispanic	0.274969367	-0.005180582
## ethnicityLatino	-0.006458566	-0.006458566
## ethnicityMiddle.Eastern.	-0.014645519	-0.014645519
## ethnicityOthers	-0.017637166	-0.017637166
## ethnicityPasifika	-0.004758551	-0.004758551
## ethnicitySouth.Asian	-0.008768388	-0.008768388
## ethnicityTurkish	-0.003501795	-0.003501795
## ethnicityWhite.European	-0.026574217	-0.026574217
## jundice	0.114406718	-0.012451204
## austim	-0.014553801	-0.014553801
## contry_of_resAfghanistan	-0.005180582	-0.005180582
## contry_of_resAmericanSamoa	-0.002015986	-0.002015986
## contry_of_resAngola	-0.001424501	-0.001424501
## contry_of_resArgentina	-0.002015986	-0.002015986
## contry_of_resArmenia	-0.002015986	-0.002015986
## contry_of_resAruba	-0.001424501	-0.001424501
## contry_of_resAustralia	-0.007542928	-0.007542928
## contry_of_resAustria	-0.002855110	-0.002855110
## contry_of_resAzerbaijan	-0.001424501	-0.001424501

## contry_of_resBahamas	-0.002015986	-0.002015986
## contry_of_resBangladesh	-0.002470831	-0.002470831
## contry_of_resBelgium	-0.002470831	-0.002470831
## contry_of_resBolivia	-0.001424501	-0.001424501
## contry_of_resBrazil	-0.004298065	-0.004298065
## contry_of_resBurundi	-0.001424501	-0.001424501
## contry_of_resCanada	-0.005572921	-0.005572921
## contry_of_resChile	-0.001424501	-0.001424501
## contry_of_resChina	-0.001424501	-0.001424501
## contry_of_resCosta.Rica	-0.001424501	-0.001424501
## contry_of_resCyprus	-0.001424501	-0.001424501
## contry_of_resCzech.Republic	-0.001424501	-0.001424501
## contry_of_resEcuador	-0.001424501	-0.001424501
## contry_of_resEgypt	-0.002470831	-0.002470831
## contry_of_resEthiopia	-0.002015986	-0.002015986
## contry_of_resFinland	-0.001424501	-0.001424501
## contry_of_resFrance	-0.004758551	-0.004758551
## contry_of_resGermany	-0.002855110	-0.002855110
## contry_of_resHong.Kong	-0.001424501	-0.001424501
## contry_of_resIceland	-0.002015986	-0.002015986
## contry_of_resIndia	-0.013620052	-0.013620052
## contry_of_resIndonesia	-0.001424501	-0.001424501
## contry_of_resIran	-0.003785087	-0.003785087
## contry_of_resIraq	-0.001424501	-0.001424501
## contry_of_resIreland	-0.003194396	-0.003194396
## contry_of_resItaly	-0.003194396	-0.003194396
## contry_of_resJapan	-0.001424501	-0.001424501
## contry_of_resJordan	-0.010102491	-0.010102491
## contry_of_resKazakhstan	-0.002470831	-0.002470831
## contry_of_resLebanon	-0.001424501	-0.001424501
## contry_of_resMalaysia	-0.003194396	-0.003194396
## contry_of_resMexico	-0.004049338	-0.004049338
## contry_of_resNepal	-0.001424501	-0.001424501
## contry_of_resNetherlands	-0.004533826	-0.004533826
## contry_of_resNew.Zealand	-0.013524849	-0.013524849
## contry_of_resNicaragua	1.000000000	-0.001424501
## contry_of_resNiger	-0.001424501	1.000000000
## contry_of_resOman	-0.001424501	-0.001424501
## contry_of_resPakistan	-0.002470831	-0.002470831
## contry_of_resPhilippines	-0.002855110	-0.002855110
## contry_of_resPortugal	-0.001424501	-0.001424501
## contry_of_resRomania	-0.002470831	-0.002470831
## contry_of_resRussia	-0.003785087	-0.003785087
## contry_of_resSaudi.Arabia	-0.002855110	-0.002855110
## contry_of_resSerbia	-0.001424501	-0.001424501
## contry_of_resSierra.Leone	-0.001424501	-0.001424501
## contry_of_resSouth.Africa	-0.002015986	-0.002015986
## contry_of_resSpain	-0.002470831	-0.002470831
## contry_of_resSri.Lanka	-0.005380044	-0.005380044
## contry_of_resSweden	-0.002015986	-0.002015986
## contry_of_resTonga	-0.001424501	-0.001424501
## contry_of_resTurkey	-0.001424501	-0.001424501
## contry_of_resUkraine	-0.002015986	-0.002015986
## contry_of_resUnited.Arab.Emirates	-0.013714898	-0.013714898

## contry_of_resUnited.Kingdom	-0.013237002	-0.013237002
## contry_of_resUnited.States	-0.016517513	-0.016517513
## contry_of_resUruguay	-0.001424501	-0.001424501
## contry_of_resViet.Nam	-0.003194396	-0.003194396
## used_app_before	-0.004973740	-0.004973740
## relationHealth.care.professional	-0.002855110	-0.002855110
## relationOthers	-0.015369962	-0.015369962
## relationParent	-0.010443831	-0.010443831
## relationRelative	-0.007687030	-0.007687030
## relationSelf	0.022307365	0.022307365
## Class.ASD	-0.022886574	-0.022886574
##	contry_of_resOman	contry_of_resPakistan
## gender	0.036113373	0.018953417
## ethnicityAsian	-0.017380810	0.027287910
## ethnicityBlack	-0.009633713	-0.016709901
## ethnicityHispanic	-0.005180582	-0.008985841
## ethnicityLatino	-0.006458566	-0.011202534
## ethnicityMiddle.Eastern.	-0.014645519	-0.025402995
## ethnicityOthers	-0.017637166	0.026302712
## ethnicityPasifika	0.299356125	-0.008253818
## ethnicitySouth.Asian	-0.008768388	0.083790185
## ethnicityTurkish	-0.003501795	-0.006073945
## ethnicityWhite.European	-0.026574217	-0.046093601
## jundice	-0.012451204	-0.021596905
## austim	-0.014553801	-0.025243908
## contry_of_resAfghanistan	-0.005180582	-0.008985841
## contry_of_resAmericanSamoa	-0.002015986	-0.003496774
## contry_of_resAngola	-0.001424501	-0.002470831
## contry_of_resArgentina	-0.002015986	-0.003496774
## contry_of_resArmenia	-0.002015986	-0.003496774
## contry_of_resAruba	-0.001424501	-0.002470831
## contry_of_resAustralia	-0.007542928	-0.013083386
## contry_of_resAustria	-0.002855110	-0.004952255
## contry_of_resAzerbaijan	-0.001424501	-0.002470831
## contry_of_resBahamas	-0.002015986	-0.003496774
## contry_of_resBangladesh	-0.002470831	-0.004285714
## contry_of_resBelgium	-0.002470831	-0.004285714
## contry_of_resBolivia	-0.001424501	-0.002470831
## contry_of_resBrazil	-0.004298065	-0.007455094
## contry_of_resBurundi	-0.001424501	-0.002470831
## contry_of_resCanada	-0.005572921	-0.009666361
## contry_of_resChile	-0.001424501	-0.002470831
## contry_of_resChina	-0.001424501	-0.002470831
## contry_of_resCosta.Rica	-0.001424501	-0.002470831
## contry_of_resCyprus	-0.001424501	-0.002470831
## contry_of_resCzech.Republic	-0.001424501	-0.002470831
## contry_of_resEcuador	-0.001424501	-0.002470831
## contry_of_resEgypt	-0.002470831	-0.004285714
## contry_of_resEthiopia	-0.002015986	-0.003496774
## contry_of_resFinland	-0.001424501	-0.002470831
## contry_of_resFrance	-0.004758551	-0.008253818
## contry_of_resGermany	-0.002855110	-0.004952255
## contry_of_resHong.Kong	-0.001424501	-0.002470831
## contry_of_resIceland	-0.002015986	-0.003496774

## contry_of_resIndia	-0.013620052	-0.023624299
## contry_of_resIndonesia	-0.001424501	-0.002470831
## contry_of_resIran	-0.003785087	-0.006565322
## contry_of_resIraq	-0.001424501	-0.002470831
## contry_of_resIreland	-0.003194396	-0.005540754
## contry_of_resItaly	-0.003194396	-0.005540754
## contry_of_resJapan	-0.001424501	-0.002470831
## contry_of_resJordan	-0.010102491	-0.017523006
## contry_of_resKazakhstan	-0.002470831	-0.004285714
## contry_of_resLebanon	-0.001424501	-0.002470831
## contry_of_resMalaysia	-0.003194396	-0.005540754
## contry_of_resMexico	-0.004049338	-0.007023672
## contry_of_resNepal	-0.001424501	-0.002470831
## contry_of_resNetherlands	-0.004533826	-0.007864027
## contry_of_resNew.Zealand	-0.013524849	-0.023459166
## contry_of_resNicaragua	-0.001424501	-0.002470831
## contry_of_resNiger	-0.001424501	-0.002470831
## contry_of_resOman	1.000000000	-0.002470831
## contry_of_resPakistan	-0.002470831	1.000000000
## contry_of_resPhilippines	-0.002855110	-0.004952255
## contry_of_resPortugal	-0.001424501	-0.002470831
## contry_of_resRomania	-0.002470831	-0.004285714
## contry_of_resRussia	-0.003785087	-0.006565322
## contry_of_resSaudi.Arabia	-0.002855110	-0.004952255
## contry_of_resSerbia	-0.001424501	-0.002470831
## contry_of_resSierra.Leone	-0.001424501	-0.002470831
## contry_of_resSouth.Africa	-0.002015986	-0.003496774
## contry_of_resSpain	-0.002470831	-0.004285714
## contry_of_resSri.Lanka	-0.005380044	-0.009331813
## contry_of_resSweden	-0.002015986	-0.003496774
## contry_of_resTonga	-0.001424501	-0.002470831
## contry_of_resTurkey	-0.001424501	-0.002470831
## contry_of_resUkraine	-0.002015986	-0.003496774
## contry_of_resUnited.Arab.Emirates	-0.013714898	-0.023788811
## contry_of_resUnited.Kingdom	-0.013237002	-0.022959890
## contry_of_resUnited.States	-0.016517513	-0.028650013
## contry_of_resUruguay	-0.001424501	-0.002470831
## contry_of_resViet.Nam	-0.003194396	-0.005540754
## used_app_before	-0.004973740	-0.008627068
## relationHealth.care.professional	-0.002855110	-0.004952255
## relationOthers	-0.015369962	0.035812673
## relationParent	-0.010443831	-0.018115070
## relationRelative	-0.007687030	-0.013333333
## relationSelf	0.022307365	-0.011125908
## Class.ASD	-0.022886574	0.009521751
##	contry_of_resPhilippines	
## gender	-0.041199333	
## ethnicityAsian	0.114491932	
## ethnicityBlack	-0.019308728	
## ethnicityHispanic	-0.010383375	
## ethnicityLatino	-0.012944821	
## ethnicityMiddle.Eastern.	-0.029353826	
## ethnicityOthers	0.013957618	
## ethnicityPasifika	-0.009537503	

## ethnicitySouth.Asian	-0.017574369
## ethnicityTurkish	-0.007018602
## ethnicityWhite.European	-0.053262364
## jundice	-0.024955790
## austim	-0.029169998
## contry_of_resAfghanistan	-0.010383375
## contry_of_resAmericanSamoa	-0.004040614
## contry_of_resAngola	-0.002855110
## contry_of_resArgentina	-0.004040614
## contry_of_resArmenia	-0.004040614
## contry_of_resAruba	-0.002855110
## contry_of_resAustralia	-0.015118195
## contry_of_resAustria	-0.005722461
## contry_of_resAzerbaijan	-0.002855110
## contry_of_resBahamas	-0.004040614
## contry_of_resBangladesh	-0.004952255
## contry_of_resBelgium	-0.004952255
## contry_of_resBolivia	-0.002855110
## contry_of_resBrazil	-0.008614557
## contry_of_resBurundi	-0.002855110
## contry_of_resCanada	-0.011169734
## contry_of_resChile	-0.002855110
## contry_of_resChina	-0.002855110
## contry_of_resCosta.Rica	-0.002855110
## contry_of_resCyprus	-0.002855110
## contry_of_resCzech.Republic	-0.002855110
## contry_of_resEcuador	-0.002855110
## contry_of_resEgypt	-0.004952255
## contry_of_resEthiopia	-0.004040614
## contry_of_resFinland	-0.002855110
## contry_of_resFrance	-0.009537503
## contry_of_resGermany	-0.005722461
## contry_of_resHong.Kong	-0.002855110
## contry_of_resIceland	-0.004040614
## contry_of_resIndia	-0.027298496
## contry_of_resIndonesia	-0.002855110
## contry_of_resIran	-0.007586401
## contry_of_resIraq	-0.002855110
## contry_of_resIreland	-0.006402487
## contry_of_resItaly	-0.006402487
## contry_of_resJapan	-0.002855110
## contry_of_resJordan	-0.020248293
## contry_of_resKazakhstan	-0.004952255
## contry_of_resLebanon	-0.002855110
## contry_of_resMalaysia	-0.006402487
## contry_of_resMexico	-0.008116037
## contry_of_resNepal	-0.002855110
## contry_of_resNetherlands	-0.009087089
## contry_of_resNew.Zealand	-0.027107682
## contry_of_resNicaragua	-0.002855110
## contry_of_resNiger	-0.002855110
## contry_of_resOman	-0.002855110
## contry_of_resPakistan	-0.004952255
## contry_of_resPhilippines	1.000000000

## contry_of_resPortugal	-0.002855110	
## contry_of_resRomania	-0.004952255	
## contry_of_resRussia	-0.007586401	
## contry_of_resSaudi.Arabia	-0.005722461	
## contry_of_resSerbia	-0.002855110	
## contry_of_resSierra.Leone	-0.002855110	
## contry_of_resSouth.Africa	-0.004040614	
## contry_of_resSpain	-0.004952255	
## contry_of_resSri.Lanka	-0.010783154	
## contry_of_resSweden	-0.004040614	
## contry_of_resTonga	-0.002855110	
## contry_of_resTurkey	-0.002855110	
## contry_of_resUkraine	-0.004040614	
## contry_of_resUnited.Arab.Emirates	-0.027488594	
## contry_of_resUnited.Kingdom	-0.026530755	
## contry_of_resUnited.States	-0.033105841	
## contry_of_resUruguay	-0.002855110	
## contry_of_resViet.Nam	-0.006402487	
## used_app_before	-0.009968803	
## relationHealth.care.professional	-0.005722461	
## relationOthers	-0.030805818	
## relationParent	0.052645082	
## relationRelative	-0.015407016	
## relationSelf	0.001535384	
## Class.ASD	-0.045871269	
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## gender	contry_of_resPortugal	contry_of_resRomania
## ethnicityAsian	0.036113373	-0.068418729
## ethnicityBlack	-0.017380810	-0.030147421
## ethnicityHispanic	-0.009633713	-0.016709901
## ethnicityLatino	-0.005180582	-0.008985841
## ethnicityMiddle.Eastern.	-0.006458566	-0.011202534
## ethnicityOthers	-0.014645519	-0.025402995
## ethnicityPasifika	-0.017637166	-0.030592078
## ethnicitySouth.Asian	-0.004758551	-0.008253818
## ethnicityTurkish	-0.008768388	-0.015208975
## ethnicityWhite.European	-0.003501795	-0.006073945
## jundice	0.053604644	0.092978509
## austim	-0.012451204	-0.021596905
## contry_of_resAfghanistan	-0.014553801	0.039761467
## contry_of_resAmericanSamoa	-0.005180582	-0.008985841
## contry_of_resAngola	-0.002015986	-0.003496774
## contry_of_resArgentina	-0.001424501	-0.002470831
## contry_of_resArmenia	-0.002015986	-0.003496774
## contry_of_resAruba	-0.002015986	-0.003496774
## contry_of_resAustralia	-0.001424501	-0.002470831
## contry_of_resAustria	-0.007542928	-0.013083386
## contry_of_resAzerbaijan	-0.002855110	-0.004952255
## contry_of_resBahamas	-0.001424501	-0.002470831
## contry_of_resBangladesh	-0.002015986	-0.003496774
## contry_of_resBelgium	-0.002470831	-0.004285714
## contry_of_resBolivia	-0.002470831	-0.004285714
## contry_of_resBrazil	-0.001424501	-0.002470831
## contry_of_resBurundi	-0.004298065	-0.007455094
	-0.001424501	-0.002470831

## contry_of_resCanada	-0.005572921	-0.009666361
## contry_of_resChile	-0.001424501	-0.002470831
## contry_of_resChina	-0.001424501	-0.002470831
## contry_of_resCosta.Rica	-0.001424501	-0.002470831
## contry_of_resCyprus	-0.001424501	-0.002470831
## contry_of_resCzech.Republic	-0.001424501	-0.002470831
## contry_of_resEcuador	-0.001424501	-0.002470831
## contry_of_resEgypt	-0.002470831	-0.004285714
## contry_of_resEthiopia	-0.002015986	-0.003496774
## contry_of_resFinland	-0.001424501	-0.002470831
## contry_of_resFrance	-0.004758551	-0.008253818
## contry_of_resGermany	-0.002855110	-0.004952255
## contry_of_resHong.Kong	-0.001424501	-0.002470831
## contry_of_resIceland	-0.002015986	-0.003496774
## contry_of_resIndia	-0.013620052	-0.023624299
## contry_of_resIndonesia	-0.001424501	-0.002470831
## contry_of_resIran	-0.003785087	-0.006565322
## contry_of_resIraq	-0.001424501	-0.002470831
## contry_of_resIreland	-0.003194396	-0.005540754
## contry_of_resItaly	-0.003194396	-0.005540754
## contry_of_resJapan	-0.001424501	-0.002470831
## contry_of_resJordan	-0.010102491	-0.017523006
## contry_of_resKazakhstan	-0.002470831	-0.004285714
## contry_of_resLebanon	-0.001424501	-0.002470831
## contry_of_resMalaysia	-0.003194396	-0.005540754
## contry_of_resMexico	-0.004049338	-0.007023672
## contry_of_resNepal	-0.001424501	-0.002470831
## contry_of_resNetherlands	-0.004533826	-0.007864027
## contry_of_resNew.Zealand	-0.013524849	-0.023459166
## contry_of_resNicaragua	-0.001424501	-0.002470831
## contry_of_resNiger	-0.001424501	-0.002470831
## contry_of_resOman	-0.001424501	-0.002470831
## contry_of_resPakistan	-0.002470831	-0.004285714
## contry_of_resPhilippines	-0.002855110	-0.004952255
## contry_of_resPortugal	1.000000000	-0.002470831
## contry_of_resRomania	-0.002470831	1.000000000
## contry_of_resRussia	-0.003785087	-0.006565322
## contry_of_resSaudi.Arabia	-0.002855110	-0.004952255
## contry_of_resSerbia	-0.001424501	-0.002470831
## contry_of_resSierra.Leone	-0.001424501	-0.002470831
## contry_of_resSouth.Africa	-0.002015986	-0.003496774
## contry_of_resSpain	-0.002470831	-0.004285714
## contry_of_resSri.Lanka	-0.005380044	-0.009331813
## contry_of_resSweden	-0.002015986	-0.003496774
## contry_of_resTonga	-0.001424501	-0.002470831
## contry_of_resTurkey	-0.001424501	-0.002470831
## contry_of_resUkraine	-0.002015986	-0.003496774
## contry_of_resUnited.Arab.Emirates	-0.013714898	-0.023788811
## contry_of_resUnited.Kingdom	-0.013237002	-0.022959890
## contry_of_resUnited.States	-0.016517513	-0.028650013
## contry_of_resUruguay	-0.001424501	-0.002470831
## contry_of_resViet.Nam	-0.003194396	-0.005540754
## used_app_before	-0.004973740	-0.008627068
## relationHealth.care.professional	-0.002855110	-0.004952255

## relationOthers	-0.015369962	-0.026659558
## relationParent	-0.010443831	-0.018115070
## relationRelative	-0.007687030	-0.013333333
## relationSelf	0.022307365	0.038692647
## Class.ASD	-0.022886574	0.009521751
##	contry_of_resRussia	contry_of_resSaudi.Arabia
## gender	-0.018767288	0.034521271
## ethnicityAsian	-0.046183087	-0.034836135
## ethnicityBlack	-0.025598037	-0.019308728
## ethnicityHispanic	-0.013765485	-0.010383375
## ethnicityLatino	-0.017161255	-0.012944821
## ethnicityMiddle.Eastern.	-0.038915060	0.082796933
## ethnicityOthers	0.177255297	0.063265184
## ethnicityPasifika	-0.012644093	-0.009537503
## ethnicitySouth.Asian	-0.023298756	-0.017574369
## ethnicityTurkish	-0.009304727	-0.007018602
## ethnicityWhite.European	-0.040176070	-0.053262364
## jundice	-0.033084480	-0.024955790
## austim	0.004006765	-0.029169998
## contry_of_resAfghanistan	-0.013765485	-0.010383375
## contry_of_resAmericanSamoa	-0.005356738	-0.004040614
## contry_of_resAngola	-0.003785087	-0.002855110
## contry_of_resArgentina	-0.005356738	-0.004040614
## contry_of_resArmenia	-0.005356738	-0.004040614
## contry_of_resAruba	-0.003785087	-0.002855110
## contry_of_resAustralia	-0.020042548	-0.015118195
## contry_of_resAustria	-0.007586401	-0.005722461
## contry_of_resAzerbaijan	-0.003785087	-0.002855110
## contry_of_resBahamas	-0.005356738	-0.004040614
## contry_of_resBangladesh	-0.006565322	-0.004952255
## contry_of_resBelgium	-0.006565322	-0.004952255
## contry_of_resBolivia	-0.003785087	-0.002855110
## contry_of_resBrazil	-0.011420521	-0.008614557
## contry_of_resBurundi	-0.003785087	-0.002855110
## contry_of_resCanada	-0.014807980	-0.011169734
## contry_of_resChile	-0.003785087	-0.002855110
## contry_of_resChina	-0.003785087	-0.002855110
## contry_of_resCosta.Rica	-0.003785087	-0.002855110
## contry_of_resCyprus	-0.003785087	-0.002855110
## contry_of_resCzech.Republic	-0.003785087	-0.002855110
## contry_of_resEcuador	-0.003785087	-0.002855110
## contry_of_resEgypt	-0.006565322	-0.004952255
## contry_of_resEthiopia	-0.005356738	-0.004040614
## contry_of_resFinland	-0.003785087	-0.002855110
## contry_of_resFrance	-0.012644093	-0.009537503
## contry_of_resGermany	-0.007586401	-0.005722461
## contry_of_resHong.Kong	-0.003785087	-0.002855110
## contry_of_resIceland	-0.005356738	-0.004040614
## contry_of_resIndia	-0.036190261	-0.027298496
## contry_of_resIndonesia	-0.003785087	-0.002855110
## contry_of_resIran	-0.010057471	-0.007586401
## contry_of_resIraq	-0.003785087	-0.002855110
## contry_of_resIreland	-0.008487928	-0.006402487
## contry_of_resItaly	-0.008487928	-0.006402487

## contry_of_resJapan	-0.003785087	-0.002855110
## contry_of_resJordan	-0.026843640	-0.020248293
## contry_of_resKazakhstan	-0.006565322	-0.004952255
## contry_of_resLebanon	-0.003785087	-0.002855110
## contry_of_resMalaysia	-0.008487928	-0.006402487
## contry_of_resMexico	-0.010759621	-0.008116037
## contry_of_resNepal	-0.003785087	-0.002855110
## contry_of_resNetherlands	-0.012046969	-0.009087089
## contry_of_resNew.Zealand	-0.035937294	-0.027107682
## contry_of_resNicaragua	-0.003785087	-0.002855110
## contry_of_resNiger	-0.003785087	-0.002855110
## contry_of_resOman	-0.003785087	-0.002855110
## contry_of_resPakistan	-0.006565322	-0.004952255
## contry_of_resPhilippines	-0.007586401	-0.005722461
## contry_of_resPortugal	-0.003785087	-0.002855110
## contry_of_resRomania	-0.006565322	-0.004952255
## contry_of_resRussia	1.000000000	-0.007586401
## contry_of_resSaudi.Arabia	-0.007586401	1.000000000
## contry_of_resSerbia	-0.003785087	-0.002855110
## contry_of_resSierra.Leone	-0.003785087	-0.002855110
## contry_of_resSouth.Africa	-0.005356738	-0.004040614
## contry_of_resSpain	-0.006565322	-0.004952255
## contry_of_resSri.Lanka	-0.014295482	-0.010783154
## contry_of_resSweden	-0.005356738	-0.004040614
## contry_of_resTonga	-0.003785087	-0.002855110
## contry_of_resTurkey	-0.003785087	-0.002855110
## contry_of_resUkraine	-0.005356738	-0.004040614
## contry_of_resUnited.Arab.Emirates	-0.036442279	-0.027488594
## contry_of_resUnited.Kingdom	-0.035172448	-0.026530755
## contry_of_resUnited.States	-0.043889195	-0.033105841
## contry_of_resUruguay	-0.003785087	-0.002855110
## contry_of_resViet.Nam	-0.008487928	-0.006402487
## used_app_before	-0.013215877	-0.009968803
## relationHealth.care.professional	-0.007586401	-0.005722461
## relationOthers	0.164235147	0.077476633
## relationParent	-0.027750628	-0.020932438
## relationRelative	-0.020425445	-0.015407016
## relationSelf	-0.104263827	-0.041639601
## Class.ASD	0.036129042	-0.003215843
##	contry_of_resSerbia	contry_of_resSierra.Leone
## gender	-0.039445261	0.036113373
## ethnicityAsian	-0.017380810	0.081958289
## ethnicityBlack	-0.009633713	-0.009633713
## ethnicityHispanic	-0.005180582	-0.005180582
## ethnicityLatino	-0.006458566	-0.006458566
## ethnicityMiddle.Eastern.	-0.014645519	-0.014645519
## ethnicityOthers	-0.017637166	-0.017637166
## ethnicityPasifika	-0.004758551	-0.004758551
## ethnicitySouth.Asian	-0.008768388	-0.008768388
## ethnicityTurkish	-0.003501795	-0.003501795
## ethnicityWhite.European	0.053604644	-0.026574217
## jundice	-0.012451204	0.114406718
## austim	-0.014553801	-0.014553801
## contry_of_resAfghanistan	-0.005180582	-0.005180582

## contry_of_resAmericanSamoa	-0.002015986	-0.002015986
## contry_of_resAngola	-0.001424501	-0.001424501
## contry_of_resArgentina	-0.002015986	-0.002015986
## contry_of_resArmenia	-0.002015986	-0.002015986
## contry_of_resAruba	-0.001424501	-0.001424501
## contry_of_resAustralia	-0.007542928	-0.007542928
## contry_of_resAustria	-0.002855110	-0.002855110
## contry_of_resAzerbaijan	-0.001424501	-0.001424501
## contry_of_resBahamas	-0.002015986	-0.002015986
## contry_of_resBangladesh	-0.002470831	-0.002470831
## contry_of_resBelgium	-0.002470831	-0.002470831
## contry_of_resBolivia	-0.001424501	-0.001424501
## contry_of_resBrazil	-0.004298065	-0.004298065
## contry_of_resBurundi	-0.001424501	-0.001424501
## contry_of_resCanada	-0.005572921	-0.005572921
## contry_of_resChile	-0.001424501	-0.001424501
## contry_of_resChina	-0.001424501	-0.001424501
## contry_of_resCosta.Rica	-0.001424501	-0.001424501
## contry_of_resCyprus	-0.001424501	-0.001424501
## contry_of_resCzech.Republic	-0.001424501	-0.001424501
## contry_of_resEcuador	-0.001424501	-0.001424501
## contry_of_resEgypt	-0.002470831	-0.002470831
## contry_of_resEthiopia	-0.002015986	-0.002015986
## contry_of_resFinland	-0.001424501	-0.001424501
## contry_of_resFrance	-0.004758551	-0.004758551
## contry_of_resGermany	-0.002855110	-0.002855110
## contry_of_resHong.Kong	-0.001424501	-0.001424501
## contry_of_resIceland	-0.002015986	-0.002015986
## contry_of_resIndia	-0.013620052	-0.013620052
## contry_of_resIndonesia	-0.001424501	-0.001424501
## contry_of_resIran	-0.003785087	-0.003785087
## contry_of_resIraq	-0.001424501	-0.001424501
## contry_of_resIreland	-0.003194396	-0.003194396
## contry_of_resItaly	-0.003194396	-0.003194396
## contry_of_resJapan	-0.001424501	-0.001424501
## contry_of_resJordan	-0.010102491	-0.010102491
## contry_of_resKazakhstan	-0.002470831	-0.002470831
## contry_of_resLebanon	-0.001424501	-0.001424501
## contry_of_resMalaysia	-0.003194396	-0.003194396
## contry_of_resMexico	-0.004049338	-0.004049338
## contry_of_resNepal	-0.001424501	-0.001424501
## contry_of_resNetherlands	-0.004533826	-0.004533826
## contry_of_resNew.Zealand	-0.013524849	-0.013524849
## contry_of_resNicaragua	-0.001424501	-0.001424501
## contry_of_resNiger	-0.001424501	-0.001424501
## contry_of_resOman	-0.001424501	-0.001424501
## contry_of_resPakistan	-0.002470831	-0.002470831
## contry_of_resPhilippines	-0.002855110	-0.002855110
## contry_of_resPortugal	-0.001424501	-0.001424501
## contry_of_resRomania	-0.002470831	-0.002470831
## contry_of_resRussia	-0.003785087	-0.003785087
## contry_of_resSaudi.Arabia	-0.002855110	-0.002855110
## contry_of_resSerbia	1.000000000	-0.001424501
## contry_of_resSierra.Leone	-0.001424501	1.000000000

## contry_of_resSouth.Africa	-0.002015986	-0.002015986
## contry_of_resSpain	-0.002470831	-0.002470831
## contry_of_resSri.Lanka	-0.005380044	-0.005380044
## contry_of_resSweden	-0.002015986	-0.002015986
## contry_of_resTonga	-0.001424501	-0.001424501
## contry_of_resTurkey	-0.001424501	-0.001424501
## contry_of_resUkraine	-0.002015986	-0.002015986
## contry_of_resUnited.Arab.Emirates	-0.013714898	-0.013714898
## contry_of_resUnited.Kingdom	-0.013237002	-0.013237002
## contry_of_resUnited.States	-0.016517513	-0.016517513
## contry_of_resUruguay	-0.001424501	-0.001424501
## contry_of_resViet.Nam	-0.003194396	-0.003194396
## used_app_before	-0.004973740	-0.004973740
## relationHealth.care.professional	-0.002855110	-0.002855110
## relationOthers	-0.015369962	-0.015369962
## relationParent	-0.010443831	-0.010443831
## relationRelative	-0.007687030	-0.007687030
## relationSelf	0.022307365	0.022307365
## Class.ASD	-0.022886574	0.062241794
##	contry_of_resSouth.Africa	contry_of_resSpain
## gender	-0.055823798	-0.024732656
## ethnicityAsian	-0.024597703	-0.030147421
## ethnicityBlack	-0.013633842	0.165415063
## ethnicityHispanic	-0.007331674	-0.008985841
## ethnicityLatino	-0.009140304	0.120053818
## ethnicityMiddle.Eastern.	-0.020726659	-0.025402995
## ethnicityOthers	-0.024960504	-0.030592078
## ethnicityPasifika	-0.006734406	-0.008253818
## ethnicitySouth.Asian	-0.012409215	-0.015208975
## ethnicityTurkish	-0.004955817	-0.006073945
## ethnicityWhite.European	0.075862466	-0.046093601
## jundice	0.072144839	0.051749106
## austim	-0.020596858	0.039761467
## contry_of_resAfghanistan	-0.007331674	-0.008985841
## contry_of_resAmericanSamoa	-0.002853067	-0.003496774
## contry_of_resAngola	-0.002015986	-0.002470831
## contry_of_resArgentina	-0.002853067	-0.003496774
## contry_of_resArmenia	-0.002853067	-0.003496774
## contry_of_resAruba	-0.002015986	-0.002470831
## contry_of_resAustralia	-0.010674917	-0.013083386
## contry_of_resAustria	-0.004040614	-0.004952255
## contry_of_resAzerbaijan	-0.002015986	-0.002470831
## contry_of_resBahamas	-0.002853067	-0.003496774
## contry_of_resBangladesh	-0.003496774	-0.004285714
## contry_of_resBelgium	-0.003496774	-0.004285714
## contry_of_resBolivia	-0.002015986	-0.002470831
## contry_of_resBrazil	-0.006082716	-0.007455094
## contry_of_resBurundi	-0.002015986	-0.002470831
## contry_of_resCanada	-0.007886919	-0.009666361
## contry_of_resChile	-0.002015986	-0.002470831
## contry_of_resChina	-0.002015986	-0.002470831
## contry_of_resCosta.Rica	-0.002015986	-0.002470831
## contry_of_resCyprus	-0.002015986	-0.002470831
## contry_of_resCzech.Republic	-0.002015986	-0.002470831

## contry_of_resEcuador	-0.002015986	-0.002470831
## contry_of_resEgypt	-0.003496774	-0.004285714
## contry_of_resEthiopia	-0.002853067	-0.003496774
## contry_of_resFinland	-0.002015986	-0.002470831
## contry_of_resFrance	-0.006734406	-0.008253818
## contry_of_resGermany	-0.004040614	-0.004952255
## contry_of_resHong.Kong	-0.002015986	-0.002470831
## contry_of_resIceland	-0.002853067	-0.003496774
## contry_of_resIndia	-0.019275396	-0.023624299
## contry_of_resIndonesia	-0.002015986	-0.002470831
## contry_of_resIran	-0.005356738	-0.006565322
## contry_of_resIraq	-0.002015986	-0.002470831
## contry_of_resIreland	-0.004520779	-0.005540754
## contry_of_resItaly	-0.004520779	-0.005540754
## contry_of_resJapan	-0.002015986	-0.002470831
## contry_of_resJordan	-0.014297266	-0.017523006
## contry_of_resKazakhstan	-0.003496774	-0.004285714
## contry_of_resLebanon	-0.002015986	-0.002470831
## contry_of_resMalaysia	-0.004520779	-0.005540754
## contry_of_resMexico	-0.005730712	-0.007023672
## contry_of_resNepal	-0.002015986	-0.002470831
## contry_of_resNetherlands	-0.006416370	-0.007864027
## contry_of_resNew.Zealand	-0.019140662	-0.023459166
## contry_of_resNicaragua	-0.002015986	-0.002470831
## contry_of_resNiger	-0.002015986	-0.002470831
## contry_of_resOman	-0.002015986	-0.002470831
## contry_of_resPakistan	-0.003496774	-0.004285714
## contry_of_resPhilippines	-0.004040614	-0.004952255
## contry_of_resPortugal	-0.002015986	-0.002470831
## contry_of_resRomania	-0.003496774	-0.004285714
## contry_of_resRussia	-0.005356738	-0.006565322
## contry_of_resSaudi.Arabia	-0.004040614	-0.004952255
## contry_of_resSerbia	-0.002015986	-0.002470831
## contry_of_resSierra.Leone	-0.002015986	-0.002470831
## contry_of_resSouth.Africa	1.000000000	-0.003496774
## contry_of_resSpain	-0.003496774	1.000000000
## contry_of_resSri.Lanka	-0.007613957	-0.009331813
## contry_of_resSweden	-0.002853067	-0.003496774
## contry_of_resTonga	-0.002015986	-0.002470831
## contry_of_resTurkey	-0.002015986	-0.002470831
## contry_of_resUkraine	-0.002853067	-0.003496774
## contry_of_resUnited.Arab.Emirates	-0.019409624	-0.023788811
## contry_of_resUnited.Kingdom	-0.018733296	-0.022959890
## contry_of_resUnited.States	-0.023375947	-0.028650013
## contry_of_resUruguay	-0.002015986	-0.002470831
## contry_of_resViet.Nam	-0.004520779	-0.005540754
## used_app_before	-0.007038945	-0.008627068
## relationHealth.care.professional	-0.004040614	-0.004952255
## relationOthers	-0.021751907	-0.026659558
## relationParent	-0.014780339	0.066784225
## relationRelative	-0.010878853	-0.013333333
## relationSelf	0.031569872	-0.011125908
## Class.ASD	0.088085951	0.058740799
##	contry_of_resSri.Lanka	contry_of_resSweden

## gender	0.0140915891	-0.055823798
## ethnicityAsian	0.2827405495	-0.024597703
## ethnicityBlack	-0.0363845214	-0.013633842
## ethnicityHispanic	-0.0195659770	-0.007331674
## ethnicityLatino	-0.0243926539	-0.009140304
## ethnicityMiddle.Eastern.	-0.0553130639	-0.020726659
## ethnicityOthers	-0.0666118926	-0.024960504
## ethnicityPasifika	-0.0179720535	-0.006734406
## ethnicitySouth.Asian	0.0130757100	-0.012409215
## ethnicityTurkish	-0.0132255470	-0.004955817
## ethnicityWhite.European	-0.1003652656	0.075862466
## jundice	-0.0470255976	-0.017621217
## austim	-0.0549666655	0.138519528
## contry_of_resAfghanistan	-0.0195659770	-0.007331674
## contry_of_resAmericanSamoa	-0.0076139566	-0.002853067
## contry_of_resAngola	-0.0053800443	-0.002015986
## contry_of_resArgentina	-0.0076139566	-0.002853067
## contry_of_resArmenia	-0.0076139566	-0.002853067
## contry_of_resAruba	-0.0053800443	-0.002015986
## contry_of_resAustralia	-0.0284880643	-0.010674917
## contry_of_resAustria	-0.0107831542	-0.004040614
## contry_of_resAzerbaijan	-0.0053800443	-0.002015986
## contry_of_resBahamas	-0.0076139566	-0.002853067
## contry_of_resBangladesh	-0.0093318127	-0.003496774
## contry_of_resBelgium	-0.0093318127	-0.003496774
## contry_of_resBolivia	-0.0053800443	-0.002015986
## contry_of_resBrazil	-0.0162328930	-0.006082716
## contry_of_resBurundi	-0.0053800443	-0.002015986
## contry_of_resCanada	-0.0210477568	-0.007886919
## contry_of_resChile	-0.0053800443	-0.002015986
## contry_of_resChina	-0.0053800443	-0.002015986
## contry_of_resCosta.Rica	-0.0053800443	-0.002015986
## contry_of_resCyprus	-0.0053800443	-0.002015986
## contry_of_resCzech.Republic	-0.0053800443	-0.002015986
## contry_of_resEcuador	-0.0053800443	-0.002015986
## contry_of_resEgypt	-0.0093318127	-0.003496774
## contry_of_resEthiopia	-0.0076139566	-0.002853067
## contry_of_resFinland	-0.0053800443	-0.002015986
## contry_of_resFrance	-0.0179720535	-0.006734406
## contry_of_resGermany	-0.0107831542	-0.004040614
## contry_of_resHong.Kong	-0.0053800443	-0.002015986
## contry_of_resIceland	-0.0076139566	-0.002853067
## contry_of_resIndia	-0.0514400905	-0.019275396
## contry_of_resIndonesia	-0.0053800443	-0.002015986
## contry_of_resIran	-0.0142954821	-0.005356738
## contry_of_resIraq	-0.0053800443	-0.002015986
## contry_of_resIreland	-0.0120645658	-0.004520779
## contry_of_resItaly	-0.0120645658	-0.004520779
## contry_of_resJapan	-0.0053800443	-0.002015986
## contry_of_resJordan	-0.0381549963	-0.014297266
## contry_of_resKazakhstan	-0.0093318127	-0.003496774
## contry_of_resLebanon	-0.0053800443	-0.002015986
## contry_of_resMalaysia	-0.0120645658	-0.004520779
## contry_of_resMexico	-0.0152935039	-0.005730712

## contry_of_resNepal	-0.0053800443	-0.002015986
## contry_of_resNetherlands	-0.0171233128	-0.006416370
## contry_of_resNew.Zealand	-0.0510805279	-0.019140662
## contry_of_resNicaragua	-0.0053800443	-0.002015986
## contry_of_resNiger	-0.0053800443	-0.002015986
## contry_of_resOman	-0.0053800443	-0.002015986
## contry_of_resPakistan	-0.0093318127	-0.003496774
## contry_of_resPhilippines	-0.0107831542	-0.004040614
## contry_of_resPortugal	-0.0053800443	-0.002015986
## contry_of_resRomania	-0.0093318127	-0.003496774
## contry_of_resRussia	-0.0142954821	-0.005356738
## contry_of_resSaudi.Arabia	-0.0107831542	-0.004040614
## contry_of_resSerbia	-0.0053800443	-0.002015986
## contry_of_resSierra.Leone	-0.0053800443	-0.002015986
## contry_of_resSouth.Africa	-0.0076139566	-0.002853067
## contry_of_resSpain	-0.0093318127	-0.003496774
## contry_of_resSri.Lanka	1.0000000000	-0.007613957
## contry_of_resSweden	-0.0076139566	1.0000000000
## contry_of_resTonga	-0.0053800443	-0.002015986
## contry_of_resTurkey	-0.0053800443	-0.002015986
## contry_of_resUkraine	-0.0076139566	-0.002853067
## contry_of_resUnited.Arab.Emirates	-0.0517983031	-0.019409624
## contry_of_resUnited.Kingdom	-0.0499933918	-0.018733296
## contry_of_resUnited.States	-0.0623831963	-0.023375947
## contry_of_resUruguay	-0.0053800443	-0.002015986
## contry_of_resViet.Nam	-0.0120645658	-0.004520779
## used_app_before	-0.0187847754	-0.007038945
## relationHealth.care.professional	-0.0107831542	-0.004040614
## relationOthers	-0.0580491348	-0.021751907
## relationParent	0.0001690464	-0.014780339
## relationRelative	-0.0290323062	-0.010878853
## relationSelf	0.0610053869	0.031569872
## Class.ASD	-0.0864378089	0.088085951
##	contry_of_resTonga	contry_of_resTurkey
## gender	-0.039445261	-0.039445261
## ethnicityAsian	-0.017380810	-0.017380810
## ethnicityBlack	-0.009633713	-0.009633713
## ethnicityHispanic	-0.005180582	-0.005180582
## ethnicityLatino	-0.006458566	-0.006458566
## ethnicityMiddle.Eastern.	-0.014645519	-0.014645519
## ethnicityOthers	-0.017637166	-0.017637166
## ethnicityPasifika	0.299356125	-0.004758551
## ethnicitySouth.Asian	-0.008768388	-0.008768388
## ethnicityTurkish	-0.003501795	0.406791817
## ethnicityWhite.European	-0.026574217	-0.026574217
## jundice	-0.012451204	-0.012451204
## austim	-0.014553801	-0.014553801
## contry_of_resAfghanistan	-0.005180582	-0.005180582
## contry_of_resAmericanSamoa	-0.002015986	-0.002015986
## contry_of_resAngola	-0.001424501	-0.001424501
## contry_of_resArgentina	-0.002015986	-0.002015986
## contry_of_resArmenia	-0.002015986	-0.002015986
## contry_of_resAruba	-0.001424501	-0.001424501
## contry_of_resAustralia	-0.007542928	-0.007542928

## contry_of_resAustria	-0.002855110	-0.002855110
## contry_of_resAzerbaijan	-0.001424501	-0.001424501
## contry_of_resBahamas	-0.002015986	-0.002015986
## contry_of_resBangladesh	-0.002470831	-0.002470831
## contry_of_resBelgium	-0.002470831	-0.002470831
## contry_of_resBolivia	-0.001424501	-0.001424501
## contry_of_resBrazil	-0.004298065	-0.004298065
## contry_of_resBurundi	-0.001424501	-0.001424501
## contry_of_resCanada	-0.005572921	-0.005572921
## contry_of_resChile	-0.001424501	-0.001424501
## contry_of_resChina	-0.001424501	-0.001424501
## contry_of_resCosta.Rica	-0.001424501	-0.001424501
## contry_of_resCyprus	-0.001424501	-0.001424501
## contry_of_resCzech.Republic	-0.001424501	-0.001424501
## contry_of_resEcuador	-0.001424501	-0.001424501
## contry_of_resEgypt	-0.002470831	-0.002470831
## contry_of_resEthiopia	-0.002015986	-0.002015986
## contry_of_resFinland	-0.001424501	-0.001424501
## contry_of_resFrance	-0.004758551	-0.004758551
## contry_of_resGermany	-0.002855110	-0.002855110
## contry_of_resHong.Kong	-0.001424501	-0.001424501
## contry_of_resIceland	-0.002015986	-0.002015986
## contry_of_resIndia	-0.013620052	-0.013620052
## contry_of_resIndonesia	-0.001424501	-0.001424501
## contry_of_resIran	-0.003785087	-0.003785087
## contry_of_resIraq	-0.001424501	-0.001424501
## contry_of_resIreland	-0.003194396	-0.003194396
## contry_of_resItaly	-0.003194396	-0.003194396
## contry_of_resJapan	-0.001424501	-0.001424501
## contry_of_resJordan	-0.010102491	-0.010102491
## contry_of_resKazakhstan	-0.002470831	-0.002470831
## contry_of_resLebanon	-0.001424501	-0.001424501
## contry_of_resMalaysia	-0.003194396	-0.003194396
## contry_of_resMexico	-0.004049338	-0.004049338
## contry_of_resNepal	-0.001424501	-0.001424501
## contry_of_resNetherlands	-0.004533826	-0.004533826
## contry_of_resNew.Zealand	-0.013524849	-0.013524849
## contry_of_resNicaragua	-0.001424501	-0.001424501
## contry_of_resNiger	-0.001424501	-0.001424501
## contry_of_resOman	-0.001424501	-0.001424501
## contry_of_resPakistan	-0.002470831	-0.002470831
## contry_of_resPhilippines	-0.002855110	-0.002855110
## contry_of_resPortugal	-0.001424501	-0.001424501
## contry_of_resRomania	-0.002470831	-0.002470831
## contry_of_resRussia	-0.003785087	-0.003785087
## contry_of_resSaudi.Arabia	-0.002855110	-0.002855110
## contry_of_resSerbia	-0.001424501	-0.001424501
## contry_of_resSierra.Leone	-0.001424501	-0.001424501
## contry_of_resSouth.Africa	-0.002015986	-0.002015986
## contry_of_resSpain	-0.002470831	-0.002470831
## contry_of_resSri.Lanka	-0.005380044	-0.005380044
## contry_of_resSweden	-0.002015986	-0.002015986
## contry_of_resTonga	1.000000000	-0.001424501
## contry_of_resTurkey	-0.001424501	1.000000000

## contry_of_resUkraine	-0.002015986	-0.002015986
## contry_of_resUnited.Arab.Emirates	-0.013714898	-0.013714898
## contry_of_resUnited.Kingdom	-0.013237002	-0.013237002
## contry_of_resUnited.States	-0.016517513	-0.016517513
## contry_of_resUruguay	-0.001424501	-0.001424501
## contry_of_resViet.Nam	-0.003194396	-0.003194396
## used_app_before	-0.004973740	-0.004973740
## relationHealth.care.professional	-0.002855110	-0.002855110
## relationOthers	-0.015369962	-0.015369962
## relationParent	-0.010443831	-0.010443831
## relationRelative	-0.007687030	-0.007687030
## relationSelf	0.022307365	0.022307365
## Class.ASD	-0.022886574	-0.022886574
##	contry_of_resUkraine	
## gender	-0.055823798	
## ethnicityAsian	-0.024597703	
## ethnicityBlack	-0.013633842	
## ethnicityHispanic	-0.007331674	
## ethnicityLatino	-0.009140304	
## ethnicityMiddle.Eastern.	-0.020726659	
## ethnicityOthers	0.044671379	
## ethnicityPasifika	-0.006734406	
## ethnicitySouth.Asian	-0.012409215	
## ethnicityTurkish	-0.004955817	
## ethnicityWhite.European	0.019127026	
## jundice	-0.017621217	
## austim	-0.020596858	
## contry_of_resAfghanistan	-0.007331674	
## contry_of_resAmericanSamoa	-0.002853067	
## contry_of_resAngola	-0.002015986	
## contry_of_resArgentina	-0.002853067	
## contry_of_resArmenia	-0.002853067	
## contry_of_resAruba	-0.002015986	
## contry_of_resAustralia	-0.010674917	
## contry_of_resAustria	-0.004040614	
## contry_of_resAzerbaijan	-0.002015986	
## contry_of_resBahamas	-0.002853067	
## contry_of_resBangladesh	-0.003496774	
## contry_of_resBelgium	-0.003496774	
## contry_of_resBolivia	-0.002015986	
## contry_of_resBrazil	-0.006082716	
## contry_of_resBurundi	-0.002015986	
## contry_of_resCanada	-0.007886919	
## contry_of_resChile	-0.002015986	
## contry_of_resChina	-0.002015986	
## contry_of_resCosta.Rica	-0.002015986	
## contry_of_resCyprus	-0.002015986	
## contry_of_resCzech.Republic	-0.002015986	
## contry_of_resEcuador	-0.002015986	
## contry_of_resEgypt	-0.003496774	
## contry_of_resEthiopia	-0.002853067	
## contry_of_resFinland	-0.002015986	
## contry_of_resFrance	-0.006734406	
## contry_of_resGermany	-0.004040614	

## contry_of_resHong.Kong	-0.002015986
## contry_of_resIceland	-0.002853067
## contry_of_resIndia	-0.019275396
## contry_of_resIndonesia	-0.002015986
## contry_of_resIran	-0.005356738
## contry_of_resIraq	-0.002015986
## contry_of_resIreland	-0.004520779
## contry_of_resItaly	-0.004520779
## contry_of_resJapan	-0.002015986
## contry_of_resJordan	-0.014297266
## contry_of_resKazakhstan	-0.003496774
## contry_of_resLebanon	-0.002015986
## contry_of_resMalaysia	-0.004520779
## contry_of_resMexico	-0.005730712
## contry_of_resNepal	-0.002015986
## contry_of_resNetherlands	-0.006416370
## contry_of_resNew.Zealand	-0.019140662
## contry_of_resNicaragua	-0.002015986
## contry_of_resNiger	-0.002015986
## contry_of_resOman	-0.002015986
## contry_of_resPakistan	-0.003496774
## contry_of_resPhilippines	-0.004040614
## contry_of_resPortugal	-0.002015986
## contry_of_resRomania	-0.003496774
## contry_of_resRussia	-0.005356738
## contry_of_resSaudi.Arabia	-0.004040614
## contry_of_resSerbia	-0.002015986
## contry_of_resSierra.Leone	-0.002015986
## contry_of_resSouth.Africa	-0.002853067
## contry_of_resSpain	-0.003496774
## contry_of_resSri.Lanka	-0.007613957
## contry_of_resSweden	-0.002853067
## contry_of_resTonga	-0.002015986
## contry_of_resTurkey	-0.002015986
## contry_of_resUkraine	1.000000000
## contry_of_resUnited.Arab.Emirates	-0.019409624
## contry_of_resUnited.Kingdom	-0.018733296
## contry_of_resUnited.States	-0.023375947
## contry_of_resUruguay	-0.002015986
## contry_of_resViet.Nam	-0.004520779
## used_app_before	0.199143493
## relationHealth.care.professional	-0.004040614
## relationOthers	0.054706045
## relationParent	-0.014780339
## relationRelative	-0.010878853
## relationSelf	-0.029401612
## Class.ASD	-0.032389581
##	contry_of_resUnited.Arab.Emirates
## gender	-0.0249110338
## ethnicityAsian	-0.1440125851
## ethnicityBlack	-0.0002893568
## ethnicityHispanic	-0.0498779111
## ethnicityLatino	-0.0621821554
## ethnicityMiddle.Eastern.	0.5554033431

## ethnicityOthers	0.0381624554
## ethnicityPasifika	-0.0101076678
## ethnicitySouth.Asian	-0.0643165236
## ethnicityTurkish	0.0626327463
## ethnicityWhite.European	-0.2558527903
## jundice	-0.0156151294
## austim	-0.1005189885
## contry_of_resAfghanistan	-0.0498779111
## contry_of_resAmericanSamoa	-0.0194096237
## contry_of_resAngola	-0.0137148976
## contry_of_resArgentina	-0.0194096237
## contry_of_resArmenia	-0.0194096237
## contry_of_resAruba	-0.0137148976
## contry_of_resAustralia	-0.0726222433
## contry_of_resAustria	-0.0274885944
## contry_of_resAzerbaijan	-0.0137148976
## contry_of_resBahamas	-0.0194096237
## contry_of_resBangladesh	-0.0237888109
## contry_of_resBelgium	-0.0237888109
## contry_of_resBolivia	-0.0137148976
## contry_of_resBrazil	-0.0413811586
## contry_of_resBurundi	-0.0137148976
## contry_of_resCanada	-0.0536552888
## contry_of_resChile	-0.0137148976
## contry_of_resChina	-0.0137148976
## contry_of_resCosta.Rica	-0.0137148976
## contry_of_resCyprus	-0.0137148976
## contry_of_resCzech.Republic	-0.0137148976
## contry_of_resEcuador	-0.0137148976
## contry_of_resEgypt	-0.0237888109
## contry_of_resEthiopia	-0.0194096237
## contry_of_resFinland	-0.0137148976
## contry_of_resFrance	-0.0458146551
## contry_of_resGermany	-0.0274885944
## contry_of_resHong.Kong	-0.0137148976
## contry_of_resIceland	-0.0194096237
## contry_of_resIndia	-0.1311319270
## contry_of_resIndonesia	-0.0137148976
## contry_of_resIran	-0.0364422788
## contry_of_resIraq	-0.0137148976
## contry_of_resIreland	-0.0307551902
## contry_of_resItaly	-0.0307551902
## contry_of_resJapan	-0.0137148976
## contry_of_resJordan	-0.0972653459
## contry_of_resKazakhstan	-0.0237888109
## contry_of_resLebanon	-0.0137148976
## contry_of_resMalaysia	-0.0307551902
## contry_of_resMexico	-0.0389864523
## contry_of_resNepal	-0.0137148976
## contry_of_resNetherlands	-0.0436510313
## contry_of_resNew.Zealand	-0.1302153241
## contry_of_resNicaragua	-0.0137148976
## contry_of_resNiger	-0.0137148976
## contry_of_resOman	-0.0137148976

## contry_of_resPakistan	-0.0237888109
## contry_of_resPhilippines	-0.0274885944
## contry_of_resPortugal	-0.0137148976
## contry_of_resRomania	-0.0237888109
## contry_of_resRussia	-0.0364422788
## contry_of_resSaudi.Arabia	-0.0274885944
## contry_of_resSerbia	-0.0137148976
## contry_of_resSierra.Leone	-0.0137148976
## contry_of_resSouth.Africa	-0.0194096237
## contry_of_resSpain	-0.0237888109
## contry_of_resSri.Lanka	-0.0517983031
## contry_of_resSweden	-0.0194096237
## contry_of_resTonga	-0.0137148976
## contry_of_resTurkey	-0.0137148976
## contry_of_resUkraine	-0.0194096237
## contry_of_resUnited.Arab.Emirates	1.0000000000
## contry_of_resUnited.Kingdom	-0.1274439789
## contry_of_resUnited.States	-0.1590282728
## contry_of_resUruguay	-0.0137148976
## contry_of_resViet.Nam	-0.0307551902
## used_app_before	0.0205366725
## relationHealth.care.professional	-0.0274885944
## relationOthers	0.0550051787
## relationParent	-0.0660698426
## relationRelative	0.0846146728
## relationSelf	-0.0381506943
## Class.ASD	-0.1903631812
##	contry_of_resUnited.Kingdom
## gender	-0.001802933
## ethnicityAsian	-0.137532485
## ethnicityBlack	-0.013491549
## ethnicityHispanic	-0.048139916
## ethnicityLatino	-0.032618770
## ethnicityMiddle.Eastern.	-0.109080806
## ethnicityOthers	-0.128264860
## ethnicityPasifika	-0.044218244
## ethnicitySouth.Asian	-0.081479157
## ethnicityTurkish	-0.032539991
## ethnicityWhite.European	0.382002465
## jundice	0.144555808
## austim	0.095422222
## contry_of_resAfghanistan	-0.048139916
## contry_of_resAmericanSamoa	-0.018733296
## contry_of_resAngola	-0.013237002
## contry_of_resArgentina	-0.018733296
## contry_of_resArmenia	-0.018733296
## contry_of_resAruba	-0.013237002
## contry_of_resAustralia	-0.070091722
## contry_of_resAustria	-0.026530755
## contry_of_resAzerbaijan	-0.013237002
## contry_of_resBahamas	-0.018733296
## contry_of_resBangladesh	-0.022959890
## contry_of_resBelgium	-0.022959890
## contry_of_resBolivia	-0.013237002

## contry_of_resBrazil	-0.039939233
## contry_of_resBurundi	-0.013237002
## contry_of_resCanada	-0.051785671
## contry_of_resChile	-0.013237002
## contry_of_resChina	-0.013237002
## contry_of_resCosta.Rica	-0.013237002
## contry_of_resCyprus	-0.013237002
## contry_of_resCzech.Republic	-0.013237002
## contry_of_resEcuador	-0.013237002
## contry_of_resEgypt	-0.022959890
## contry_of_resEthiopia	-0.018733296
## contry_of_resFinland	-0.013237002
## contry_of_resFrance	-0.044218244
## contry_of_resGermany	-0.026530755
## contry_of_resHong.Kong	-0.013237002
## contry_of_resIceland	-0.018733296
## contry_of_resIndia	-0.126562636
## contry_of_resIndonesia	-0.013237002
## contry_of_resIran	-0.035172448
## contry_of_resIraq	-0.013237002
## contry_of_resIreland	-0.029683526
## contry_of_resItaly	-0.029683526
## contry_of_resJapan	-0.013237002
## contry_of_resJordan	-0.093876136
## contry_of_resKazakhstan	-0.022959890
## contry_of_resLebanon	-0.013237002
## contry_of_resMalaysia	-0.029683526
## contry_of_resMexico	-0.037627970
## contry_of_resNepal	-0.013237002
## contry_of_resNetherlands	-0.042130012
## contry_of_resNew.Zealand	-0.125677973
## contry_of_resNicaragua	-0.013237002
## contry_of_resNiger	-0.013237002
## contry_of_resOman	-0.013237002
## contry_of_resPakistan	-0.022959890
## contry_of_resPhilippines	-0.026530755
## contry_of_resPortugal	-0.013237002
## contry_of_resRomania	-0.022959890
## contry_of_resRussia	-0.035172448
## contry_of_resSaudi.Arabia	-0.026530755
## contry_of_resSerbia	-0.013237002
## contry_of_resSierra.Leone	-0.013237002
## contry_of_resSouth.Africa	-0.018733296
## contry_of_resSpain	-0.022959890
## contry_of_resSri.Lanka	-0.049993392
## contry_of_resSweden	-0.018733296
## contry_of_resTonga	-0.013237002
## contry_of_resTurkey	-0.013237002
## contry_of_resUkraine	-0.018733296
## contry_of_resUnited.Arab.Emirates	-0.127443979
## contry_of_resUnited.Kingdom	1.000000000
## contry_of_resUnited.States	-0.153486934
## contry_of_resUruguay	-0.013237002
## contry_of_resViet.Nam	-0.029683526

## used_app_before	-0.046217856
## relationHealth.care.professional	-0.026530755
## relationOthers	-0.116744264
## relationParent	0.009276277
## relationRelative	-0.001557164
## relationSelf	0.092905561
## Class.ASD	0.085255309
##	contry_of_resUnited.States
## gender	-0.007687142
## ethnicityAsian	-0.160761581
## ethnicityBlack	0.049910095
## ethnicityHispanic	0.256147605
## ethnicityLatino	-0.051593862
## ethnicityMiddle.Eastern.	-0.112401424
## ethnicityOthers	-0.113629992
## ethnicityPasifika	-0.023970613
## ethnicitySouth.Asian	-0.084101874
## ethnicityTurkish	0.001497210
## ethnicityWhite.European	0.267782927
## jundice	0.011832226
## austim	0.096595884
## contry_of_resAfghanistan	-0.060070375
## contry_of_resAmericanSamoa	-0.023375947
## contry_of_resAngola	-0.016517513
## contry_of_resArgentina	-0.023375947
## contry_of_resArmenia	-0.023375947
## contry_of_resAruba	-0.016517513
## contry_of_resAustralia	-0.087462472
## contry_of_resAustria	-0.033105841
## contry_of_resAzerbaijan	-0.016517513
## contry_of_resBahamas	-0.023375947
## contry_of_resBangladesh	-0.028650013
## contry_of_resBelgium	-0.028650013
## contry_of_resBolivia	-0.016517513
## contry_of_resBrazil	-0.049837326
## contry_of_resBurundi	-0.016517513
## contry_of_resCanada	-0.064619654
## contry_of_resChile	-0.016517513
## contry_of_resChina	-0.016517513
## contry_of_resCosta.Rica	-0.016517513
## contry_of_resCyprus	-0.016517513
## contry_of_resCzech.Republic	-0.016517513
## contry_of_resEcuador	-0.016517513
## contry_of_resEgypt	-0.028650013
## contry_of_resEthiopia	-0.023375947
## contry_of_resFinland	-0.016517513
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## contry_of_resHong.Kong	-0.016517513
## contry_of_resIceland	-0.023375947
## contry_of_resIndia	-0.157928508
## contry_of_resIndonesia	-0.016517513
## contry_of_resIran	-0.043889195
## contry_of_resIraq	-0.016517513

## contry_of_resIreland	-0.037039960	
## contry_of_resItaly	-0.037039960	
## contry_of_resJapan	-0.016517513	
## contry_of_resJordan	-0.117141350	
## contry_of_resKazakhstan	-0.028650013	
## contry_of_resLebanon	-0.016517513	
## contry_of_resMalaysia	-0.037039960	
## contry_of_resMexico	-0.046953266	
## contry_of_resNepal	-0.016517513	
## contry_of_resNetherlands	-0.052571044	
## contry_of_resNew.Zealand	-0.156824599	
## contry_of_resNicaragua	-0.016517513	
## contry_of_resNiger	-0.016517513	
## contry_of_resOman	-0.016517513	
## contry_of_resPakistan	-0.028650013	
## contry_of_resPhilippines	-0.033105841	
## contry_of_resPortugal	-0.016517513	
## contry_of_resRomania	-0.028650013	
## contry_of_resRussia	-0.043889195	
## contry_of_resSaudi.Arabia	-0.033105841	
## contry_of_resSerbia	-0.016517513	
## contry_of_resSierra.Leone	-0.016517513	
## contry_of_resSouth.Africa	-0.023375947	
## contry_of_resSpain	-0.028650013	
## contry_of_resSri.Lanka	-0.062383196	
## contry_of_resSweden	-0.023375947	
## contry_of_resTonga	-0.016517513	
## contry_of_resTurkey	-0.016517513	
## contry_of_resUkraine	-0.023375947	
## contry_of_resUnited.Arab.Emirates	-0.159028273	
## contry_of_resUnited.Kingdom	-0.153486934	
## contry_of_resUnited.States	1.000000000	
## contry_of_resUruguay	-0.016517513	
## contry_of_resViet.Nam	-0.037039960	
## used_app_before	0.032025808	
## relationHealth.care.professional	-0.033105841	
## relationOthers	-0.144956897	
## relationParent	-0.030692778	
## relationRelative	0.029692344	
## relationSelf	0.126035033	
## Class.ASD	0.197594140	
##	contry_of_resUruguay	contry_of_resViet.Nam
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## ethnicityAsian	-0.017380810	0.139235760
## ethnicityBlack	-0.009633713	-0.021603273
## ethnicityHispanic	-0.005180582	-0.011617279
## ethnicityLatino	-0.006458566	-0.014483114
## ethnicityMiddle.Eastern.	-0.014645519	-0.032842076
## ethnicityOthers	-0.017637166	0.004582864
## ethnicityPasifika	-0.004758551	-0.010670889
## ethnicitySouth.Asian	-0.008768388	-0.019662812
## ethnicityTurkish	-0.003501795	-0.007852655
## ethnicityWhite.European	0.053604644	-0.059591775
## jundice	0.114406718	-0.027921401

## austim	0.097878309	-0.032636402
## contry_of_resAfghanistan	-0.005180582	-0.011617279
## contry_of_resAmericanSamoa	-0.002015986	-0.004520779
## contry_of_resAngola	-0.001424501	-0.003194396
## contry_of_resArgentina	-0.002015986	-0.004520779
## contry_of_resArmenia	-0.002015986	-0.004520779
## contry_of_resAruba	-0.001424501	-0.003194396
## contry_of_resAustralia	-0.007542928	-0.016914759
## contry_of_resAustria	-0.002855110	-0.006402487
## contry_of_resAzerbaijan	-0.001424501	-0.003194396
## contry_of_resBahamas	-0.002015986	-0.004520779
## contry_of_resBangladesh	-0.002470831	-0.005540754
## contry_of_resBelgium	-0.002470831	-0.005540754
## contry_of_resBolivia	-0.001424501	-0.003194396
## contry_of_resBrazil	-0.004298065	-0.009638264
## contry_of_resBurundi	-0.001424501	-0.003194396
## contry_of_resCanada	-0.005572921	-0.012497084
## contry_of_resChile	-0.001424501	-0.003194396
## contry_of_resChina	-0.001424501	-0.003194396
## contry_of_resCosta.Rica	-0.001424501	-0.003194396
## contry_of_resCyprus	-0.001424501	-0.003194396
## contry_of_resCzech.Republic	-0.001424501	-0.003194396
## contry_of_resEcuador	-0.001424501	-0.003194396
## contry_of_resEgypt	-0.002470831	-0.005540754
## contry_of_resEthiopia	-0.002015986	-0.004520779
## contry_of_resFinland	-0.001424501	-0.003194396
## contry_of_resFrance	-0.004758551	-0.010670889
## contry_of_resGermany	-0.002855110	-0.006402487
## contry_of_resHong.Kong	-0.001424501	-0.003194396
## contry_of_resIceland	-0.002015986	-0.004520779
## contry_of_resIndia	-0.013620052	-0.030542502
## contry_of_resIndonesia	-0.001424501	-0.003194396
## contry_of_resIran	-0.003785087	-0.008487928
## contry_of_resIraq	-0.001424501	-0.003194396
## contry_of_resIreland	-0.003194396	-0.007163324
## contry_of_resItaly	-0.003194396	-0.007163324
## contry_of_resJapan	-0.001424501	-0.003194396
## contry_of_resJordan	-0.010102491	-0.022654491
## contry_of_resKazakhstan	-0.002470831	-0.005540754
## contry_of_resLebanon	-0.001424501	-0.003194396
## contry_of_resMalaysia	-0.003194396	-0.007163324
## contry_of_resMexico	-0.004049338	-0.009080502
## contry_of_resNepal	-0.001424501	-0.003194396
## contry_of_resNetherlands	-0.004533826	-0.010166950
## contry_of_resNew.Zealand	-0.013524849	-0.030329012
## contry_of_resNicaragua	-0.001424501	-0.003194396
## contry_of_resNiger	-0.001424501	-0.003194396
## contry_of_resOman	-0.001424501	-0.003194396
## contry_of_resPakistan	-0.002470831	-0.005540754
## contry_of_resPhilippines	-0.002855110	-0.006402487
## contry_of_resPortugal	-0.001424501	-0.003194396
## contry_of_resRomania	-0.002470831	-0.005540754
## contry_of_resRussia	-0.003785087	-0.008487928
## contry_of_resSaudi.Arabia	-0.002855110	-0.006402487

## contry_of_resSerbia	-0.001424501	-0.003194396
## contry_of_resSierra.Leone	-0.001424501	-0.003194396
## contry_of_resSouth.Africa	-0.002015986	-0.004520779
## contry_of_resSpain	-0.002470831	-0.005540754
## contry_of_resSri.Lanka	-0.005380044	-0.012064566
## contry_of_resSweden	-0.002015986	-0.004520779
## contry_of_resTonga	-0.001424501	-0.003194396
## contry_of_resTurkey	-0.001424501	-0.003194396
## contry_of_resUkraine	-0.002015986	-0.004520779
## contry_of_resUnited.Arab.Emirates	-0.013714898	-0.030755190
## contry_of_resUnited.Kingdom	-0.013237002	-0.029683526
## contry_of_resUnited.States	-0.016517513	-0.037039960
## contry_of_resUruguay	1.000000000	-0.003194396
## contry_of_resViet.Nam	-0.003194396	1.000000000
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## relationHealth.care.professional	-0.002855110	-0.006402487
## relationOthers	-0.015369962	-0.034466615
## relationParent	-0.010443831	-0.023419936
## relationRelative	-0.007687030	-0.017237903
## relationSelf	0.022307365	0.050023506
## Class.ASD	0.062241794	-0.013142869
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## ethnicityAsian	-0.031782152	
## ethnicityBlack	0.012190058	
## ethnicityHispanic	0.063425143	
## ethnicityLatino	0.043503680	
## ethnicityMiddle.Eastern.	0.046550237	
## ethnicityOthers	0.024314845	
## ethnicityPasifika	-0.016614791	
## ethnicitySouth.Asian	-0.030615400	
## ethnicityTurkish	-0.012226744	
## ethnicityWhite.European	-0.046127324	
## jundice	0.030347926	
## austim	0.014611796	
## contry_of_resAfghanistan	-0.018088341	
## contry_of_resAmericanSamoa	-0.007038945	
## contry_of_resAngola	-0.004973740	
## contry_of_resArgentina	-0.007038945	
## contry_of_resArmenia	0.199143493	
## contry_of_resAruba	-0.004973740	
## contry_of_resAustralia	-0.026336626	
## contry_of_resAustria	-0.009968803	
## contry_of_resAzerbaijan	-0.004973740	
## contry_of_resBahamas	-0.007038945	
## contry_of_resBangladesh	-0.008627068	
## contry_of_resBelgium	-0.008627068	
## contry_of_resBolivia	-0.004973740	
## contry_of_resBrazil	0.180361590	
## contry_of_resBurundi	-0.004973740	
## contry_of_resCanada	0.056536926	
## contry_of_resChile	-0.004973740	
## contry_of_resChina	-0.004973740	
## contry_of_resCosta.Rica	-0.004973740	

## contry_of_resCyprus	-0.004973740
## contry_of_resCzech.Republic	-0.004973740
## contry_of_resEcuador	-0.004973740
## contry_of_resEgypt	-0.008627068
## contry_of_resEthiopia	-0.007038945
## contry_of_resFinland	-0.004973740
## contry_of_resFrance	-0.016614791
## contry_of_resGermany	-0.009968803
## contry_of_resHong.Kong	-0.004973740
## contry_of_resIceland	-0.007038945
## contry_of_resIndia	-0.047555299
## contry_of_resIndonesia	-0.004973740
## contry_of_resIran	-0.013215877
## contry_of_resIraq	-0.004973740
## contry_of_resIreland	-0.011153441
## contry_of_resItaly	-0.011153441
## contry_of_resJapan	-0.004973740
## contry_of_resJordan	-0.035273504
## contry_of_resKazakhstan	0.159840393
## contry_of_resLebanon	-0.004973740
## contry_of_resMalaysia	0.119527714
## contry_of_resMexico	-0.014138528
## contry_of_resNepal	-0.004973740
## contry_of_resNetherlands	-0.015830148
## contry_of_resNew.Zealand	-0.047222891
## contry_of_resNicaragua	-0.004973740
## contry_of_resNiger	-0.004973740
## contry_of_resOman	-0.004973740
## contry_of_resPakistan	-0.008627068
## contry_of_resPhilippines	-0.009968803
## contry_of_resPortugal	-0.004973740
## contry_of_resRomania	-0.008627068
## contry_of_resRussia	-0.013215877
## contry_of_resSaudi.Arabia	-0.009968803
## contry_of_resSerbia	-0.004973740
## contry_of_resSierra.Leone	-0.004973740
## contry_of_resSouth.Africa	-0.007038945
## contry_of_resSpain	-0.008627068
## contry_of_resSri.Lanka	-0.018784775
## contry_of_resSweden	-0.007038945
## contry_of_resTonga	-0.004973740
## contry_of_resTurkey	-0.004973740
## contry_of_resUkraine	0.199143493
## contry_of_resUnited.Arab.Emirates	0.020536673
## contry_of_resUnited.Kingdom	-0.046217856
## contry_of_resUnited.States	0.032025808
## contry_of_resUruguay	-0.004973740
## contry_of_resViet.Nam	-0.011153441
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## relationHealth.care.professional	-0.009968803
## relationOthers	0.009212530
## relationParent	0.006259880
## relationRelative	0.029316054
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## Class.ASD	0.043936387
##	relationHealth.care.professional
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## ethnicityAsian	0.014939887
## ethnicityBlack	0.059610085
## ethnicityHispanic	-0.010383375
## ethnicityLatino	-0.012944821
## ethnicityMiddle.Eastern.	-0.029353826
## ethnicityOthers	0.013957618
## ethnicityPasifika	-0.009537503
## ethnicitySouth.Asian	-0.017574369
## ethnicityTurkish	-0.007018602
## ethnicityWhite.European	-0.013086997
## jundice	0.038609139
## austim	0.027166564
## contry_of_resAfghanistan	0.129991868
## contry_of_resAmericanSamoa	-0.004040614
## contry_of_resAngola	-0.002855110
## contry_of_resArgentina	-0.004040614
## contry_of_resArmenia	-0.004040614
## contry_of_resAruba	-0.002855110
## contry_of_resAustralia	-0.015118195
## contry_of_resAustria	-0.005722461
## contry_of_resAzerbaijan	-0.002855110
## contry_of_resBahamas	0.351028367
## contry_of_resBangladesh	-0.004952255
## contry_of_resBelgium	-0.004952255
## contry_of_resBolivia	-0.002855110
## contry_of_resBrazil	-0.008614557
## contry_of_resBurundi	-0.002855110
## contry_of_resCanada	-0.011169734
## contry_of_resChile	-0.002855110
## contry_of_resChina	-0.002855110
## contry_of_resCosta.Rica	-0.002855110
## contry_of_resCyprus	-0.002855110
## contry_of_resCzech.Republic	-0.002855110
## contry_of_resEcuador	-0.002855110
## contry_of_resEgypt	-0.004952255
## contry_of_resEthiopia	0.351028367
## contry_of_resFinland	-0.002855110
## contry_of_resFrance	-0.009537503
## contry_of_resGermany	-0.005722461
## contry_of_resHong.Kong	-0.002855110
## contry_of_resIceland	-0.004040614
## contry_of_resIndia	-0.027298496
## contry_of_resIndonesia	-0.002855110
## contry_of_resIran	-0.007586401
## contry_of_resIraq	-0.002855110
## contry_of_resIreland	-0.006402487
## contry_of_resItaly	-0.006402487
## contry_of_resJapan	-0.002855110
## contry_of_resJordan	-0.020248293
## contry_of_resKazakhstan	-0.004952255
## contry_of_resLebanon	-0.002855110

## contry_of_resMalaysia	-0.006402487
## contry_of_resMexico	-0.008116037
## contry_of_resNepal	-0.002855110
## contry_of_resNetherlands	0.150618503
## contry_of_resNew.Zealand	-0.027107682
## contry_of_resNicaragua	-0.002855110
## contry_of_resNiger	-0.002855110
## contry_of_resOman	-0.002855110
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## contry_of_resSaudi.Arabia	-0.005722461
## contry_of_resSerbia	-0.002855110
## contry_of_resSierra.Leone	-0.002855110
## contry_of_resSouth.Africa	-0.004040614
## contry_of_resSpain	-0.004952255
## contry_of_resSri.Lanka	-0.010783154
## contry_of_resSweden	-0.004040614
## contry_of_resTonga	-0.002855110
## contry_of_resTurkey	-0.002855110
## contry_of_resUkraine	-0.004040614
## contry_of_resUnited.Arab.Emirates	-0.027488594
## contry_of_resUnited.Kingdom	-0.026530755
## contry_of_resUnited.States	-0.033105841
## contry_of_resUruguay	-0.002855110
## contry_of_resViet.Nam	-0.006402487
## used_app_before	-0.009968803
## relationHealth.care.professional	1.000000000
## relationOthers	-0.030805818
## relationParent	-0.020932438
## relationRelative	-0.015407016
## relationSelf	-0.127989569
## Class.ASD	-0.003215843
##	
## gender	relationOthers relationParent
## ethnicityAsian	-0.009822501 -0.0122139866
## ethnicityBlack	-0.176815547 -0.0254650033
## ethnicityHispanic	-0.103945000 0.1372197700
## ethnicityLatino	-0.055896997 0.0030969775
## ethnicityMiddle.Eastern.	-0.069686073 0.0525127308
## ethnicityOthers	-0.158020944 0.1387700508
## ethnicityPasifika	0.818365368 -0.1148789705
## ethnicitySouth.Asian	-0.051343402 -0.0348876492
## ethnicityTurkish	-0.094608396 -0.0391787763
## ethnicityWhite.European	0.006486144 -0.0256736519
## jundice	-0.260774971 -0.0419931285
## austim	0.002531136 0.0947266676
## contry_of_resAfghanistan	-0.072113622 0.1076167959
## contry_of_resAmericanSamoa	0.034785131 0.0852545326
## contry_of_resAngola	-0.021751907 -0.0147803392
## contry_of_resArgentina	-0.015369962 0.1363964391
## contry_of_resArmenia	0.131163998 -0.0147803392
## contry_of_resArmenia	-0.021751907 -0.0147803392

## contry_of_resAruba	-0.015369962	-0.0104438315
## contry_of_resAustralia	-0.081386033	0.0022939883
## contry_of_resAustria	0.023335407	-0.0209324383
## contry_of_resAzerbaijan	0.092680870	-0.0104438315
## contry_of_resBahamas	0.054706045	-0.0147803392
## contry_of_resBangladesh	-0.026659558	-0.0181150701
## contry_of_resBelgium	-0.026659558	-0.0181150701
## contry_of_resBolivia	-0.015369962	-0.0104438315
## contry_of_resBrazil	-0.010150947	0.0177165004
## contry_of_resBurundi	-0.015369962	0.1363964391
## contry_of_resCanada	-0.060130215	-0.0025604507
## contry_of_resChile	-0.015369962	-0.0104438315
## contry_of_resChina	-0.015369962	-0.0104438315
## contry_of_resCosta.Rica	-0.015369962	0.1363964391
## contry_of_resCyprus	-0.015369962	-0.0104438315
## contry_of_resCzech.Republic	-0.015369962	-0.0104438315
## contry_of_resEcuador	-0.015369962	-0.0104438315
## contry_of_resEgypt	0.035812673	-0.0181150701
## contry_of_resEthiopia	-0.021751907	-0.0147803392
## contry_of_resFinland	-0.015369962	-0.0104438315
## contry_of_resFrance	-0.051343402	0.3218544220
## contry_of_resGermany	-0.030805818	-0.0209324383
## contry_of_resHong.Kong	0.092680870	-0.0104438315
## contry_of_resIceland	-0.021751907	0.0891254453
## contry_of_resIndia	-0.134202084	0.0041421897
## contry_of_resIndonesia	-0.015369962	-0.0104438315
## contry_of_resIran	0.164235147	-0.0277506277
## contry_of_resIraq	0.092680870	-0.0104438315
## contry_of_resIreland	-0.034466615	-0.0234199359
## contry_of_resItaly	-0.034466615	-0.0234199359
## contry_of_resJapan	0.092680870	-0.0104438315
## contry_of_resJordan	0.575767632	-0.0740671137
## contry_of_resKazakhstan	0.160757137	-0.0181150701
## contry_of_resLebanon	0.092680870	-0.0104438315
## contry_of_resMalaysia	-0.034466615	-0.0234199359
## contry_of_resMexico	-0.043691196	0.0746653306
## contry_of_resNepal	-0.015369962	-0.0104438315
## contry_of_resNetherlands	-0.048918680	-0.0332400596
## contry_of_resNew.Zealand	-0.081811579	0.0054041312
## contry_of_resNicaragua	-0.015369962	-0.0104438315
## contry_of_resNiger	-0.015369962	-0.0104438315
## contry_of_resOman	-0.015369962	-0.0104438315
## contry_of_resPakistan	0.035812673	-0.0181150701
## contry_of_resPhilippines	-0.030805818	0.0526450823
## contry_of_resPortugal	-0.015369962	-0.0104438315
## contry_of_resRomania	-0.026659558	-0.0181150701
## contry_of_resRussia	0.164235147	-0.0277506277
## contry_of_resSaudi.Arabia	0.077476633	-0.0209324383
## contry_of_resSerbia	-0.015369962	-0.0104438315
## contry_of_resSierra.Leone	-0.015369962	-0.0104438315
## contry_of_resSouth.Africa	-0.021751907	-0.0147803392
## contry_of_resSpain	-0.026659558	0.0667842251
## contry_of_resSri.Lanka	-0.058049135	0.0001690464
## contry_of_resSweden	-0.021751907	-0.0147803392

## contry_of_resTonga	-0.015369962	-0.0104438315	
## contry_of_resTurkey	-0.015369962	-0.0104438315	
## contry_of_resUkraine	0.054706045	-0.0147803392	
## contry_of_resUnited.Arab.Emirates	0.055005179	-0.0660698426	
## contry_of_resUnited.Kingdom	-0.116744264	0.0092762767	
## contry_of_resUnited.States	-0.144956897	-0.0306927780	
## contry_of_resUruguay	-0.015369962	-0.0104438315	
## contry_of_resViet.Nam	-0.034466615	-0.0234199359	
## used_app_before	0.009212530	0.0062598797	
## relationHealth.care.professional	-0.030805818	-0.0209324383	
## relationOthers	1.000000000	-0.1126859461	
## relationParent	-0.112685946	1.0000000000	
## relationRelative	-0.082940848	-0.0563579959	
## relationSelf	-0.689008392	-0.4681786222	
## Class.ASD	-0.155088502	-0.0180046175	
##	relationRelative	relationSelf	Class.ASD
## gender	0.092944243	-0.032423111	-0.081361471
## ethnicityAsian	-0.074646866	0.186705450	-0.144133867
## ethnicityBlack	0.039076124	-0.025310689	0.086216788
## ethnicityHispanic	0.026035899	0.032917016	0.035840741
## ethnicityLatino	0.008899791	0.023006494	0.089216576
## ethnicityMiddle.Eastern.	0.093512473	0.007875874	-0.159194491
## ethnicityOthers	-0.095175353	-0.545101302	-0.132794031
## ethnicityPasifika	0.091542348	0.022184126	-0.050600707
## ethnicitySouth.Asian	-0.047316811	0.122578104	-0.097209558
## ethnicityTurkish	-0.018896717	0.019534533	-0.021383205
## ethnicityWhite.European	0.042027165	0.216080784	0.315969388
## jundice	0.055052981	-0.088812133	0.101901979
## austim	0.051474147	-0.033287786	0.177147712
## contry_of_resAfghanistan	-0.027955950	-0.087607266	-0.035603610
## contry_of_resAmericanSamoa	-0.010878853	0.031569872	0.027848185
## contry_of_resAngola	-0.007687030	-0.063857897	-0.022886574
## contry_of_resArgentina	-0.010878853	-0.090373095	0.027848185
## contry_of_resArmenia	0.125689608	-0.029401612	-0.032389581
## contry_of_resAruba	-0.007687030	0.022307365	-0.022886574
## contry_of_resAustralia	-0.002853578	0.067425330	0.079153044
## contry_of_resAustria	-0.015407016	0.001535384	0.082095008
## contry_of_resAzerbaijan	-0.007687030	-0.063857897	-0.022886574
## contry_of_resBahamas	-0.010878853	-0.090373095	0.027848185
## contry_of_resBangladesh	-0.013333333	0.038692647	0.009521751
## contry_of_resBelgium	-0.013333333	0.038692647	0.009521751
## contry_of_resBolivia	0.185312329	-0.063857897	-0.022886574
## contry_of_resBrazil	-0.023193626	0.009533062	0.073641704
## contry_of_resBurundi	-0.007687030	-0.063857897	-0.022886574
## contry_of_resCanada	-0.030073124	0.064797663	0.132488949
## contry_of_resChile	-0.007687030	0.022307365	-0.022886574
## contry_of_resChina	-0.007687030	0.022307365	0.062241794
## contry_of_resCosta.Rica	-0.007687030	-0.063857897	-0.022886574
## contry_of_resCyprus	-0.007687030	0.022307365	0.062241794
## contry_of_resCzech.Republic	-0.007687030	0.022307365	-0.022886574
## contry_of_resEcuador	-0.007687030	0.022307365	-0.022886574
## contry_of_resEgypt	-0.013333333	-0.011125908	-0.039697298
## contry_of_resEthiopia	-0.010878853	-0.029401612	-0.032389581
## contry_of_resFinland	0.185312329	-0.063857897	0.062241794

```
## contry_of_resFrance -0.025678546 -0.134816951 0.052807133
## contry_of_resGermany -0.015407016 0.044710368 0.039439583
## contry_of_resHong.Kong -0.007687030 -0.063857897 -0.022886574
## contry_of_resIceland -0.010878853 -0.029401612 -0.032389581
## contry_of_resIndia -0.050716087 0.131918994 -0.158533315
## contry_of_resIndonesia -0.007687030 0.022307365 -0.022886574
## contry_of_resIran -0.020425445 -0.104263827 -0.060812624
## contry_of_resIraq -0.007687030 -0.063857897 -0.022886574
## contry_of_resIreland 0.069320994 0.011378973 0.025036623
## contry_of_resItaly -0.017237903 0.050023506 0.101395608
## contry_of_resJapan -0.007687030 -0.063857897 -0.022886574
## contry_of_resJordan -0.054516020 -0.387868441 -0.136619934
## contry_of_resKazakhstan -0.013333333 -0.110763017 -0.039697298
## contry_of_resLebanon -0.007687030 -0.063857897 -0.022886574
## contry_of_resMalaysia -0.017237903 0.050023506 0.101395608
## contry_of_resMexico -0.021851423 0.002177600 0.055936269
## contry_of_resNepal -0.007687030 0.022307365 0.062241794
## contry_of_resNetherlands 0.098387714 -0.011273965 0.035534634
## contry_of_resNew.Zealand 0.018637004 0.058403917 -0.065749071
## contry_of_resNicaragua -0.007687030 0.022307365 -0.022886574
## contry_of_resNiger -0.007687030 0.022307365 -0.022886574
## contry_of_resOman -0.007687030 0.022307365 -0.022886574
## contry_of_resPakistan -0.013333333 -0.011125908 0.009521751
## contry_of_resPhilippines -0.015407016 0.001535384 -0.045871269
## contry_of_resPortugal -0.007687030 0.022307365 -0.022886574
## contry_of_resRomania -0.013333333 0.038692647 0.009521751
## contry_of_resRussia -0.020425445 -0.104263827 0.036129042
## contry_of_resSaudi.Arabia -0.015407016 -0.041639601 -0.003215843
## contry_of_resSerbia -0.007687030 0.022307365 -0.022886574
## contry_of_resSierra.Leone -0.007687030 0.022307365 0.062241794
## contry_of_resSouth.Africa -0.010878853 0.031569872 0.088085951
## contry_of_resSpain -0.013333333 -0.011125908 0.058740799
## contry_of_resSri.Lanka -0.029032306 0.061005387 -0.086437809
## contry_of_resSweden -0.010878853 0.031569872 0.088085951
## contry_of_resTonga -0.007687030 0.022307365 -0.022886574
## contry_of_resTurkey -0.007687030 0.022307365 -0.022886574
## contry_of_resUkraine -0.010878853 -0.029401612 -0.032389581
## contry_of_resUnited.Arab.Emirates 0.084614673 -0.038150694 -0.190363181
## contry_of_resUnited.Kingdom -0.001557164 0.092905561 0.085255309
## contry_of_resUnited.States 0.029692344 0.126035033 0.197594140
## contry_of_resUruguay -0.007687030 0.022307365 0.062241794
## contry_of_resViet.Nam -0.017237903 0.050023506 -0.013142869
## used_app_before 0.029316054 -0.022396257 0.043936387
## relationHealth.care.professional -0.015407016 -0.127989569 -0.003215843
## relationOthers -0.082940848 -0.689008392 -0.155088502
## relationParent -0.056357996 -0.468178622 -0.018004618
## relationRelative 1.000000000 -0.344596052 0.024154441
## relationSelf -0.344596052 1.000000000 0.124008921
## Class.ASD 0.024154441 0.124008921 1.000000000
```

```
# relation Others and ethnicity are highly correlated. We will drop the relationothers because of other.
catgl_autism_data <- catgl_autism_data[, -83]
catgl_autism_data
```

##	gender	ethnicityAsian	ethnicityBlack	ethnicityHispanic	ethnicityLatino
## 1	0	0	0	0	0
## 2	1	0	0	0	1
## 3	1	0	0	0	1
## 4	0	0	0	0	0
## 5	0	0	0	0	0
## 6	1	0	0	0	0
## 7	0	0	1	0	0
## 8	1	0	0	0	0
## 9	1	0	0	0	0
## 10	1	1	0	0	0
## 11	1	0	0	0	0
## 12	0	0	0	0	0
## 13	0	0	0	0	0
## 14	1	0	0	0	0
## 15	0	0	0	0	0
## 16	1	0	0	0	0
## 17	1	0	0	0	0
## 18	1	0	0	0	0
## 19	0	0	0	0	0
## 20	1	0	0	0	0
## 21	1	0	0	0	0
## 22	0	0	1	0	0
## 23	1	0	0	0	0
## 24	1	0	0	0	0
## 25	1	0	0	0	0
## 26	0	0	0	0	0
## 27	1	0	0	0	0
## 28	1	0	0	0	0
## 29	1	0	1	0	0
## 30	1	0	0	0	0
## 31	1	0	0	0	0
## 32	0	0	0	0	0
## 33	0	0	0	0	0
## 34	0	0	0	0	0
## 35	0	0	0	0	0
## 36	1	0	0	0	0
## 37	1	0	0	0	0
## 38	0	0	0	0	0
## 39	0	0	0	0	0
## 40	0	0	0	0	0
## 41	0	0	0	0	1
## 42	0	1	0	0	0
## 43	0	0	0	0	0
## 44	0	0	0	0	0
## 45	0	0	0	0	0
## 46	0	0	0	0	0
## 47	0	0	0	0	0
## 48	1	0	0	0	0
## 49	1	0	0	0	0
## 50	0	1	0	0	0
## 51	0	0	0	0	1
## 52	0	0	1	0	0
## 54	1	0	0	0	1

## 55	1	0	0	0	0
## 56	0	1	0	0	0
## 57	0	0	0	0	0
## 58	0	0	0	0	0
## 59	0	0	0	0	0
## 60	0	0	0	0	0
## 61	0	0	0	0	0
## 62	0	0	0	0	0
## 63	1	0	0	0	0
## 64	1	0	0	0	0
## 65	0	0	0	0	0
## 66	1	0	0	0	0
## 67	1	0	0	0	0
## 68	1	0	0	1	0
## 69	1	0	0	0	0
## 70	1	0	1	0	0
## 71	0	0	0	0	0
## 72	1	1	0	0	0
## 73	1	0	0	0	0
## 74	1	0	0	0	0
## 75	0	0	0	0	0
## 76	1	0	0	1	0
## 77	1	0	0	0	0
## 78	0	0	1	0	0
## 79	1	0	0	0	0
## 80	0	0	0	0	0
## 81	1	0	0	0	0
## 82	1	0	0	0	0
## 83	0	0	0	0	0
## 84	0	0	0	0	0
## 85	0	0	0	0	0
## 86	0	0	0	0	0
## 87	0	0	0	0	0
## 88	1	0	0	0	0
## 89	0	0	0	0	0
## 90	0	0	0	0	0
## 91	0	0	0	0	0
## 92	0	0	0	0	0
## 93	0	0	0	0	0
## 94	0	0	0	0	1
## 95	0	0	0	0	0
## 96	0	0	0	0	0
## 97	0	0	0	0	0
## 98	1	0	0	0	0
## 99	0	0	0	0	0
## 100	1	0	0	0	0
## 101	0	0	0	0	0
## 102	0	1	0	0	0
## 103	1	1	0	0	0
## 104	1	1	0	0	0
## 105	1	0	0	0	0
## 106	1	1	0	0	0
## 107	1	0	0	0	0
## 108	0	0	0	0	0

## 109	0	1	0	0	0
## 110	0	1	0	0	0
## 111	0	0	0	0	0
## 112	1	0	0	0	0
## 113	1	1	0	0	0
## 114	1	1	0	0	0
## 115	0	0	0	0	0
## 116	0	0	0	0	0
## 117	0	0	0	0	0
## 118	1	0	0	0	0
## 119	0	0	0	0	0
## 120	1	0	0	0	0
## 121	1	0	0	0	0
## 122	0	0	0	0	0
## 123	0	0	1	0	0
## 124	1	1	0	0	0
## 125	0	0	0	0	0
## 126	0	0	0	0	0
## 127	0	0	0	0	0
## 128	1	0	0	0	0
## 129	0	0	0	0	0
## 130	0	0	0	0	0
## 131	0	0	0	0	0
## 132	1	0	1	0	0
## 133	1	0	0	0	0
## 134	1	1	0	0	0
## 135	1	1	0	0	0
## 136	1	1	0	0	0
## 137	1	1	0	0	0
## 138	1	1	0	0	0
## 139	1	1	0	0	0
## 140	0	1	0	0	0
## 141	1	1	0	0	0
## 142	1	0	0	0	0
## 143	1	1	0	0	0
## 144	1	1	0	0	0
## 145	1	0	0	0	0
## 146	1	0	0	0	0
## 147	1	0	0	0	0
## 148	0	0	0	0	0
## 149	0	0	0	0	0
## 150	1	0	0	0	0
## 151	1	1	0	0	0
## 152	1	1	0	0	0
## 153	0	0	0	0	0
## 154	1	1	0	0	0
## 155	1	1	0	0	0
## 156	0	1	0	0	0
## 157	0	1	0	0	0
## 158	0	0	0	0	0
## 159	0	1	0	0	0
## 160	1	1	0	0	0
## 161	1	1	0	0	0
## 162	0	0	0	0	0

## 163	0	0	0	0	0
## 164	1	1	0	0	0
## 165	0	1	0	0	0
## 166	1	1	0	0	0
## 167	0	0	0	0	0
## 168	0	1	0	0	0
## 169	0	0	0	0	1
## 170	0	0	0	0	1
## 171	1	0	0	1	0
## 172	0	1	0	0	0
## 173	0	1	0	0	0
## 174	0	0	0	0	0
## 175	1	0	0	0	0
## 176	0	0	1	0	0
## 177	0	0	1	0	0
## 178	1	0	0	0	0
## 179	1	0	0	0	0
## 180	1	0	0	0	0
## 181	0	0	0	0	0
## 182	0	1	0	0	0
## 183	1	0	0	0	0
## 184	1	1	0	0	0
## 185	1	0	0	0	0
## 186	1	0	0	0	0
## 187	1	0	0	0	0
## 188	0	0	0	0	0
## 189	0	0	0	0	0
## 190	1	0	0	0	0
## 191	1	0	0	0	0
## 192	1	0	0	0	1
## 193	1	0	0	1	0
## 194	0	1	0	0	0
## 195	1	0	0	0	0
## 196	0	0	0	0	0
## 197	1	0	0	0	0
## 198	1	0	0	0	0
## 199	1	0	0	0	0
## 200	0	0	0	0	0
## 201	0	0	0	0	0
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## 203	0	0	0	0	0
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## 297	0	0	1
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## 306	0	1	0
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## 506	0	0	0
## 507	0	1	0
## 508	0	1	0
## 509	0	1	1
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## 511	0	1	1
## 512	0	1	1
## 513	0	1	0
## 514	0	1	0
## 515	0	1	1
## 516	0	1	1
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## 518	0	1	1
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## 520	0	1	0
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## 523	0	1	1
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## 527	0	1	0
## 528	0	0	0
## 529	0	1	1
## 530	0	1	0
## 531	0	1	0
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## 537	0	0	0
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## 539	0	1	0
## 540	1	0	0

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## 542	0	0	0
## 543	0	1	1
## 544	0	1	1
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## 558	0	1	0
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## 561	0	1	1
## 562	0	1	1
## 563	0	0	0
## 564	0	0	0
## 565	0	0	0
## 566	0	1	0
## 567	0	1	0
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## 569	0	1	1
## 570	0	1	0
## 571	0	1	0
## 572	0	0	0
## 573	0	0	0
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## 575	0	1	0
## 576	0	1	0
## 577	0	1	1
## 578	0	1	1
## 579	0	1	1
## 580	0	1	0
## 581	0	1	0
## 582	0	0	0
## 583	1	0	0
## 584	1	0	1
## 585	0	1	1
## 586	0	1	0
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## 588	0	1	1
## 589	0	0	1
## 590	0	1	0
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## 593	0	1	1
## 594	0	0	0

## 595	0	1	0
## 596	0	1	0
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## 600	0	0	0
## 601	0	1	0
## 602	0	1	0
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## 620	0	1	0
## 621	0	1	0
## 622	0	1	1
## 623	0	1	0
## 624	0	1	1
## 625	0	1	0
## 626	0	1	0
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## 628	0	1	0
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## 630	0	1	0
## 631	0	1	0
## 632	0	1	0
## 633	0	0	0
## 634	0	1	0
## 635	0	1	1
## 636	0	1	0
## 637	0	0	0
## 638	0	1	1
## 639	0	1	0
## 640	0	0	1
## 641	0	1	0
## 642	0	1	1
## 643	0	0	0
## 644	0	0	0
## 645	0	0	0
## 646	0	0	1
## 647	0	1	0
## 648	0	0	0

## 649	0	1	0
## 650	0	1	0
## 651	0	1	0
## 652	0	0	0
## 653	0	0	0
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## 655	0	1	1
## 656	0	1	0
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## 658	0	1	0
## 659	0	0	0
## 660	0	0	1
## 661	0	1	1
## 662	0	1	1
## 663	0	1	0
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## 665	0	1	0
## 666	0	1	1
## 667	0	0	0
## 668	0	0	0
## 669	0	1	0
## 670	0	1	1
## 671	0	1	1
## 672	0	1	1
## 673	0	1	1
## 674	0	1	1
## 675	0	1	0
## 676	0	1	0
## 677	0	0	0
## 678	0	0	0
## 679	0	1	1
## 680	0	1	1
## 681	0	0	1
## 682	0	1	1
## 683	0	1	0
## 684	0	1	0
## 685	1	0	0
## 686	0	1	1
## 687	0	1	0
## 688	0	1	1
## 689	0	1	1
## 690	0	1	1
## 691	0	1	0
## 692	0	1	0
## 693	0	1	1
## 694	0	1	0
## 695	0	1	1
## 696	0	0	0
## 697	0	1	1
## 698	0	1	0
## 699	0	1	1
## 700	0	1	1
## 701	0	0	0
## 702	0	0	1

```
## 703          0          1          0
## 704          0          1          1
```

Since the other columns are binary, the min max scaling function won't have an impact on them when we implement min max scaling. We will use min max normalization to bring the age and result columns to the same scale.

```
min_max_scaler <- function(x) {
  (x - min(x)) / (max(x) - min(x))
}
# using min_max_scaler function
scaled_numerical_aut_data <- as.data.frame(lapply(numerical_aut_data, min_max_scaler))
scaled_numerical_aut_data
```

##	A1_Score	A2_Score	A3_Score	A4_Score	A5_Score	A6_Score	A7_Score	A8_Score
## 1	1	1	1	1	0	0	1	1
## 2	1	1	0	1	0	0	0	1
## 3	1	1	0	1	1	0	1	1
## 4	1	1	0	1	0	0	1	1
## 5	1	0	0	0	0	0	0	1
## 6	1	1	1	1	1	0	1	1
## 7	0	1	0	0	0	0	0	1
## 8	1	1	1	1	0	0	0	0
## 9	1	1	0	0	1	0	0	1
## 10	1	1	1	1	0	1	1	1
## 11	1	1	1	1	1	1	1	1
## 12	0	1	0	1	1	1	1	0
## 13	0	1	1	1	1	1	0	0
## 14	1	0	0	0	0	0	1	1
## 15	1	0	0	0	0	0	1	1
## 16	1	1	0	1	1	0	0	1
## 17	1	0	0	0	0	0	1	1
## 18	0	0	0	0	0	0	0	1
## 19	0	0	1	0	1	1	0	0
## 20	0	0	0	0	0	0	1	1
## 21	0	1	1	1	0	0	0	0
## 22	0	0	0	0	0	0	0	0
## 23	0	0	0	1	0	0	1	1
## 24	0	0	0	0	0	0	0	1
## 25	1	1	1	1	0	0	0	1
## 26	0	1	1	0	0	0	0	1
## 27	0	0	0	0	0	0	0	1
## 28	0	0	0	0	0	0	0	1
## 29	0	0	0	0	0	0	0	1
## 30	0	1	1	0	0	0	0	0
## 31	0	0	0	0	0	0	0	0
## 32	1	0	0	1	1	1	1	1
## 33	1	1	0	0	0	0	1	0
## 34	1	1	1	1	1	1	1	1

## 35	1	1	1	1	1	1	1	1
## 36	0	0	1	0	0	0	0	0
## 37	0	1	1	0	1	0	0	1
## 38	1	0	1	1	1	1	0	0
## 39	1	0	0	1	1	1	1	0
## 40	1	0	1	1	0	1	1	1
## 41	1	0	1	1	1	0	1	1
## 42	0	0	0	0	1	1	0	0
## 43	0	0	1	1	0	0	0	0
## 44	0	1	1	1	0	0	0	0
## 45	1	1	1	1	1	1	0	1
## 46	1	0	1	1	1	1	0	1
## 47	1	1	1	1	0	1	0	0
## 48	0	0	1	1	1	0	1	0
## 49	0	1	1	0	0	1	0	0
## 50	1	1	0	0	0	1	1	1
## 51	1	0	0	1	0	0	0	1
## 52	1	1	1	1	1	1	1	1
## 53	1	0	1	1	1	1	1	1
## 54	1	1	1	1	1	1	1	1
## 55	1	1	1	1	1	1	0	1
## 56	1	0	1	1	1	1	0	1
## 57	1	1	1	1	1	1	0	1
## 58	1	0	0	0	1	0	0	1
## 59	1	1	1	1	0	0	0	1
## 60	1	0	1	1	1	1	1	1
## 61	1	0	1	1	0	1	1	1
## 62	0	0	0	0	0	0	0	0
## 63	1	0	0	1	1	0	0	1
## 64	1	1	1	1	1	1	1	1
## 65	1	0	1	0	0	0	0	1
## 66	0	1	0	0	0	0	0	1
## 67	1	0	1	0	1	1	1	1
## 68	1	0	0	0	1	0	1	0
## 69	0	0	0	0	1	0	0	0
## 70	1	1	0	0	0	0	1	1
## 71	0	0	1	1	0	0	0	1
## 72	1	0	1	1	0	0	1	1
## 73	1	1	1	0	0	0	0	1
## 74	0	0	1	1	1	0	0	1
## 75	1	1	0	1	1	1	1	1
## 76	1	0	0	0	0	0	1	1
## 77	1	1	0	1	1	1	1	1
## 78	1	0	0	1	1	0	0	0
## 79	1	1	0	0	0	0	0	0
## 80	0	0	1	1	0	0	1	1
## 81	1	0	0	0	0	0	1	0
## 82	1	1	1	1	1	1	1	1
## 83	0	0	1	0	1	0	0	1
## 84	1	1	0	0	0	0	0	0
## 85	1	0	0	0	0	0	0	1
## 86	1	0	0	1	1	1	1	1
## 87	1	0	0	0	0	0	0	0
## 88	1	0	0	0	0	0	0	1

## 89	1	1	1	1	1	1	0	1
## 90	1	0	1	1	0	0	0	0
## 91	0	1	0	0	1	0	1	0
## 92	0	0	0	1	1	1	0	1
## 93	1	1	1	0	1	1	1	0
## 94	1	1	1	1	1	0	0	1
## 95	1	1	0	0	0	0	0	1
## 96	1	0	0	0	1	0	1	1
## 97	1	0	0	1	1	0	1	0
## 98	1	1	0	0	0	0	0	1
## 99	0	0	0	0	0	0	0	0
## 100	0	1	1	0	0	0	0	1
## 101	1	0	0	0	0	0	0	1
## 102	1	0	0	0	0	0	0	0
## 103	1	1	0	0	1	0	1	1
## 104	0	0	0	0	1	1	0	1
## 105	0	0	0	0	0	0	0	0
## 106	0	0	1	0	1	1	1	1
## 107	1	1	0	1	1	0	1	1
## 108	1	0	0	1	1	1	1	0
## 109	1	0	0	0	0	1	1	0
## 110	1	0	1	1	1	1	1	1
## 111	0	0	1	1	0	1	0	1
## 112	1	0	0	0	1	0	0	0
## 113	0	1	0	0	0	0	0	1
## 114	1	1	0	1	1	1	1	1
## 115	1	0	1	1	1	1	0	1
## 116	1	1	1	1	1	1	0	1
## 117	1	1	1	0	1	0	1	1
## 118	1	1	1	1	1	1	0	1
## 119	1	1	1	1	1	1	0	0
## 120	1	1	1	1	1	1	0	1
## 121	1	0	1	1	1	1	1	1
## 122	1	0	0	0	0	0	0	0
## 123	1	0	0	1	1	1	1	1
## 124	1	0	1	1	1	1	1	1
## 125	1	1	0	0	1	1	1	1
## 126	0	0	0	0	0	0	0	0
## 127	1	0	0	1	1	1	0	1
## 128	1	0	1	1	0	0	1	0
## 129	1	0	0	0	1	0	0	0
## 130	1	1	0	0	0	0	0	1
## 131	1	0	0	0	0	0	0	1
## 132	1	1	0	0	0	0	0	1
## 133	1	0	1	1	0	0	0	1
## 134	0	1	0	0	1	1	0	1
## 135	1	0	1	1	0	0	0	1
## 136	0	1	1	0	0	1	0	0
## 137	0	0	0	0	1	0	0	0
## 138	1	0	0	0	0	0	1	0
## 139	0	1	0	0	0	0	0	0
## 140	0	0	1	1	0	0	0	1
## 141	1	0	0	0	0	0	0	1
## 142	1	0	1	0	0	0	0	1

## 143	1	0	0	1	1	0	0	1
## 144	0	0	0	0	0	0	0	1
## 145	1	0	0	1	1	1	1	1
## 146	1	0	1	1	1	1	1	1
## 147	1	1	1	1	1	1	1	1
## 148	1	1	0	0	1	1	1	1
## 149	1	1	1	1	1	0	1	1
## 150	0	0	0	0	1	0	0	1
## 151	0	1	1	1	1	0	1	1
## 152	1	1	0	0	1	0	0	0
## 153	0	0	1	0	1	0	1	0
## 154	1	0	0	0	1	0	1	0
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## 156	1	0	0	0	0	1	0	1
## 157	0	1	0	0	1	0	0	1
## 158	1	0	0	1	0	0	0	0
## 159	1	0	0	0	0	0	1	1
## 160	0	0	0	0	0	0	0	0
## 161	0	1	0	0	0	0	0	1
## 162	0	0	0	0	0	0	0	1
## 163	1	1	0	0	0	0	0	1
## 164	1	0	1	0	1	0	1	1
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## 169	1	1	1	1	1	0	0	1
## 170	1	0	1	1	0	0	1	1
## 171	1	1	0	1	0	0	1	0
## 172	0	0	1	1	1	0	0	0
## 173	1	0	0	0	0	0	0	1
## 174	1	0	0	1	0	0	0	1
## 175	1	1	0	0	0	0	1	1
## 176	1	1	1	1	1	1	0	1
## 177	0	0	1	1	1	0	0	1
## 178	1	0	1	0	1	0	0	1
## 179	1	0	1	0	1	0	1	0
## 180	1	0	0	0	1	0	1	0
## 181	1	1	1	1	1	0	0	0
## 182	0	1	0	1	1	1	0	1
## 183	0	0	1	1	1	0	0	0
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## 185	1	0	1	1	1	1	1	0
## 186	1	0	0	0	0	0	1	1
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## 595	1	1	0	0	0	0	0	1
## 596	1	1	0	0	0	0	0	1
## 597	1	0	0	0	1	0	1	1
## 598	1	0	0	0	0	0	0	1
## 599	1	0	1	1	0	0	0	1
## 600	1	0	0	0	0	0	0	1
## 601	1	0	1	0	0	0	0	1
## 602	1	0	1	0	0	0	0	0
## 603	1	0	0	0	0	0	0	1
## 604	1	0	0	0	0	0	1	0
## 605	1	0	0	0	1	1	0	1
## 606	1	0	0	0	0	0	1	1
## 607	0	0	0	0	0	0	0	1
## 608	1	0	0	0	0	0	0	0
## 609	1	0	0	1	0	0	1	1
## 610	0	0	1	0	1	1	0	1
## 611	1	0	0	0	1	0	1	1
## 612	1	1	1	1	0	0	0	0
## 613	1	0	0	0	0	0	0	0
## 614	1	1	0	1	0	0	0	1
## 615	1	0	1	1	0	1	0	1
## 616	1	0	0	0	1	0	1	0
## 617	0	0	0	1	1	0	0	1
## 618	0	1	0	0	0	0	0	0
## 619	1	0	0	1	0	0	0	1
## 620	0	1	0	0	1	0	1	1
## 621	1	0	1	1	1	0	1	1
## 622	1	0	0	0	1	0	1	1
## 623	1	0	0	1	1	0	1	1
## 624	1	0	0	0	0	0	0	1
## 625	1	0	1	0	1	0	1	1
## 626	1	0	1	0	0	0	0	1
## 627	1	0	0	0	0	0	1	1
## 628	1	0	0	0	1	0	1	1

## 629	1	0	0	0	1	0	1	1
## 630	1	1	0	1	1	0	1	1
## 631	0	0	0	0	0	0	1	0
## 632	0	0	1	0	0	0	0	1
## 633	1	1	0	0	1	0	0	1
## 634	1	0	1	0	1	0	1	1
## 635	0	1	1	0	0	0	1	0
## 636	0	0	0	0	0	0	0	0
## 637	1	1	1	1	1	1	1	1
## 638	1	1	0	1	1	0	0	1
## 639	1	0	0	0	1	1	1	1
## 640	1	1	1	0	0	0	0	1
## 641	1	0	1	1	1	0	1	1
## 642	0	0	0	0	1	0	0	1
## 643	1	0	0	0	0	0	0	0
## 644	1	0	1	1	1	0	0	1
## 645	1	0	1	1	0	0	1	1
## 646	1	1	1	1	0	0	0	0
## 647	1	0	1	0	0	1	0	1
## 648	1	0	1	1	1	0	0	0
## 649	0	1	1	1	0	0	0	0
## 650	1	1	0	0	0	0	0	0
## 651	1	0	0	0	0	0	1	0
## 652	0	0	0	0	0	0	0	0
## 653	1	1	1	1	1	1	1	1
## 654	1	1	1	1	1	0	1	1
## 655	1	0	0	1	1	0	1	0
## 656	1	0	0	0	1	0	1	0
## 657	1	1	0	0	1	0	1	0
## 658	0	0	1	1	0	0	1	0
## 659	1	1	1	1	1	1	0	0
## 660	1	1	1	0	1	1	0	1
## 661	1	1	1	1	1	1	0	1
## 662	1	0	0	1	1	1	0	0
## 663	1	0	0	0	0	0	1	1
## 664	0	0	0	0	0	0	1	1
## 665	1	1	1	1	1	1	1	0
## 666	0	0	0	0	0	0	0	1
## 667	0	0	1	0	0	0	1	1
## 668	1	0	0	0	0	0	1	1
## 669	1	1	1	1	1	1	1	1
## 670	1	1	1	1	1	0	1	1
## 671	1	1	1	1	1	0	0	1
## 672	1	1	1	1	1	0	1	1
## 673	1	1	1	0	1	0	1	1
## 674	1	1	0	0	1	1	0	1
## 675	1	1	1	1	0	0	0	0
## 676	1	1	0	0	0	0	1	0
## 677	1	0	0	0	0	0	1	0
## 678	1	1	1	1	1	0	0	1
## 679	1	1	1	1	1	1	1	1
## 680	1	1	1	1	1	1	1	1
## 681	1	1	0	1	1	1	1	1
## 682	1	1	0	0	0	0	0	1

## 683	1	1	0	0	0	0	0	1
## 684	1	0	1	0	0	0	0	1
## 685	1	0	1	1	1	0	0	1
## 686	1	0	0	0	1	0	1	1
## 687	1	1	1	0	1	1	1	1
## 688	1	0	1	1	1	1	1	0
## 689	1	0	0	0	1	1	1	1
## 690	0	0	0	0	1	0	0	0
## 691	1	0	0	1	0	0	1	1
## 692	1	1	1	0	1	1	1	1
## 693	1	0	0	1	0	0	0	1
## 694	1	1	1	1	1	0	0	1
## 695	1	0	1	1	0	0	1	1
## 696	1	1	1	1	1	1	0	1
## 697	1	1	1	1	1	0	0	0
## 698	1	1	1	1	1	1	1	1
## 699	0	1	0	1	1	0	1	1
## 700	1	0	0	0	0	0	0	1
## 701	1	0	1	1	1	0	1	1
## 702	1	0	0	1	1	0	1	0
## 703	1	0	1	1	1	0	1	1
##	A9_Score	A10_Score	age	result				
## 1	0	0	0.19148936	0.6				
## 2	0	1	0.14893617	0.5				
## 3	1	1	0.21276596	0.8				
## 4	0	1	0.38297872	0.6				
## 5	0	0	0.48936170	0.2				
## 6	1	1	0.40425532	0.9				
## 7	0	0	0.00000000	0.2				
## 8	1	0	1.00000000	0.5				
## 9	1	1	0.25531915	0.6				
## 10	1	0	0.00000000	0.8				
## 11	1	1	0.34042553	1.0				
## 12	0	1	0.02127660	0.6				
## 13	1	0	0.00000000	0.6				
## 14	0	1	0.00000000	0.4				
## 15	0	1	0.00000000	0.4				
## 16	0	1	0.02127660	0.6				
## 17	1	1	0.29787234	0.5				
## 18	0	1	0.27659574	0.2				
## 19	0	0	0.38297872	0.3				
## 20	0	1	0.36170213	0.3				
## 21	0	0	0.44680851	0.3				
## 22	0	0	0.21276596	0.0				
## 23	1	1	0.21276596	0.5				
## 24	0	1	0.53191489	0.2				
## 25	0	0	0.55319149	0.5				
## 26	0	0	0.14893617	0.3				
## 27	0	0	0.48936170	0.1				
## 28	0	0	0.48936170	0.1				
## 29	0	0	0.65957447	0.1				
## 30	1	1	0.29787234	0.4				
## 31	0	0	0.02127660	0.0				
## 32	0	1	0.42553191	0.7				

## 33	0	1 0.80851064	0.4
## 34	1	1 0.02127660	1.0
## 35	1	1 0.02127660	1.0
## 36	0	0 0.80851064	0.1
## 37	1	1 0.70212766	0.6
## 38	1	0 0.36170213	0.6
## 39	1	1 0.76595745	0.7
## 40	1	1 0.38297872	0.8
## 41	0	1 0.06382979	0.7
## 42	0	0 0.23404255	0.2
## 43	0	1 0.36170213	0.3
## 44	0	1 0.40425532	0.4
## 45	0	1 0.21276596	0.8
## 46	1	0 0.76595745	0.7
## 47	0	0 0.14893617	0.5
## 48	0	0 0.14893617	0.4
## 49	0	0 0.80851064	0.3
## 50	0	1 0.27659574	0.6
## 51	0	0 0.08510638	0.3
## 52	1	1 0.38297872	1.0
## 53	0	1 0.08510638	0.8
## 54	1	1 0.63829787	1.0
## 55	1	1 0.27659574	0.9
## 56	1	1 0.23404255	0.8
## 57	1	1 0.55319149	0.9
## 58	0	0 0.31914894	0.3
## 59	0	0 0.57446809	0.5
## 60	0	1 0.06382979	0.8
## 61	0	1 0.06382979	0.7
## 62	0	0 0.21276596	0.0
## 63	1	0 0.04255319	0.5
## 64	0	1 0.25531915	0.9
## 65	0	0 0.08510638	0.3
## 66	0	0 0.21276596	0.2
## 67	0	0 0.08510638	0.6
## 68	0	1 0.38297872	0.4
## 69	0	0 0.53191489	0.1
## 70	0	1 0.25531915	0.5
## 71	0	0 0.87234043	0.3
## 72	0	1 0.08510638	0.6
## 73	1	1 0.08510638	0.6
## 74	1	1 0.42553191	0.6
## 75	0	0 0.08510638	0.7
## 76	0	0 0.06382979	0.3
## 77	1	0 0.34042553	0.8
## 78	0	1 0.06382979	0.4
## 79	0	0 0.59574468	0.2
## 80	0	1 0.31914894	0.5
## 81	0	1 0.27659574	0.3
## 82	1	1 0.34042553	1.0
## 83	0	1 0.53191489	0.4
## 84	0	0 0.00000000	0.2
## 85	0	1 0.21276596	0.3
## 86	1	1 0.38297872	0.8

## 87	0	0 0.42553191	0.1
## 88	1	1 0.27659574	0.4
## 89	1	1 0.25531915	0.9
## 90	0	1 0.00000000	0.4
## 91	0	1 0.21276596	0.4
## 92	0	1 0.10638298	0.5
## 93	1	1 0.04255319	0.8
## 94	1	1 0.53191489	0.8
## 95	0	1 0.42553191	0.4
## 96	0	0 0.23404255	0.4
## 97	0	0 0.10638298	0.4
## 98	0	0 0.19148936	0.3
## 99	1	0 0.08510638	0.1
## 100	0	0 0.19148936	0.3
## 101	0	0 0.46808511	0.2
## 102	1	1 0.19148936	0.3
## 103	0	0 0.19148936	0.5
## 104	0	1 0.08510638	0.4
## 105	0	0 0.17021277	0.0
## 106	0	1 0.19148936	0.6
## 107	0	1 0.27659574	0.7
## 108	0	0 0.04255319	0.5
## 109	0	0 0.04255319	0.3
## 110	1	1 0.17021277	0.9
## 111	1	1 0.12765957	0.6
## 112	0	1 0.29787234	0.3
## 113	1	1 0.21276596	0.4
## 114	0	1 0.25531915	0.8
## 115	1	0 0.44680851	0.7
## 116	0	1 0.12765957	0.8
## 117	0	0 0.21276596	0.6
## 118	1	1 0.21276596	0.9
## 119	1	0 0.53191489	0.7
## 120	1	1 0.06382979	0.9
## 121	1	1 0.00000000	0.9
## 122	0	0 0.06382979	0.1
## 123	0	1 0.27659574	0.7
## 124	1	1 0.23404255	0.9
## 125	0	1 0.19148936	0.7
## 126	0	0 0.19148936	0.0
## 127	0	1 0.29787234	0.6
## 128	0	1 0.48936170	0.5
## 129	1	1 0.46808511	0.4
## 130	0	0 0.02127660	0.3
## 131	0	1 0.14893617	0.3
## 132	0	0 0.12765957	0.3
## 133	0	1 0.14893617	0.5
## 134	1	0 0.14893617	0.5
## 135	1	1 0.21276596	0.6
## 136	1	1 0.14893617	0.5
## 137	0	1 0.17021277	0.2
## 138	0	1 0.10638298	0.3
## 139	0	1 0.48936170	0.2
## 140	0	1 0.12765957	0.4

## 141	0	0 0.25531915	0.2
## 142	0	0 0.17021277	0.3
## 143	0	0 0.21276596	0.4
## 144	0	0 0.10638298	0.1
## 145	1	1 0.23404255	0.8
## 146	1	1 0.06382979	0.9
## 147	1	1 0.04255319	1.0
## 148	0	1 0.42553191	0.7
## 149	1	0 0.38297872	0.8
## 150	0	0 0.19148936	0.2
## 151	0	1 0.12765957	0.7
## 152	0	1 0.31914894	0.4
## 153	1	1 0.27659574	0.5
## 154	0	1 0.29787234	0.4
## 155	0	1 0.23404255	0.3
## 156	0	1 0.25531915	0.4
## 157	0	1 0.25531915	0.4
## 158	1	1 0.25531915	0.4
## 159	0	0 0.29787234	0.3
## 160	0	0 0.40425532	0.0
## 161	0	0 0.31914894	0.2
## 162	0	0 0.36170213	0.1
## 163	0	0 0.14893617	0.3
## 164	0	1 0.14893617	0.6
## 165	0	1 0.53191489	0.5
## 166	1	1 0.19148936	0.4
## 167	0	0 0.21276596	0.4
## 168	1	1 0.40425532	0.6
## 169	1	1 0.40425532	0.8
## 170	0	1 0.80851064	0.6
## 171	0	0 0.12765957	0.4
## 172	0	1 0.10638298	0.4
## 173	0	0 0.53191489	0.2
## 174	0	0 0.78723404	0.3
## 175	1	1 0.55319149	0.6
## 176	1	1 0.55319149	0.9
## 177	1	1 0.25531915	0.6
## 178	0	1 0.25531915	0.5
## 179	0	0 0.42553191	0.4
## 180	0	1 0.46808511	0.4
## 181	0	0 0.02127660	0.5
## 182	0	1 0.29787234	0.6
## 183	0	1 0.36170213	0.4
## 184	0	1 0.10638298	0.5
## 185	1	0 0.23404255	0.7
## 186	0	1 0.44680851	0.4
## 187	0	1 0.23404255	0.4
## 188	1	1 0.76595745	0.8
## 189	0	0 0.19148936	0.5
## 190	1	1 0.42553191	0.9
## 191	0	1 0.53191489	0.5
## 192	0	1 0.55319149	0.3
## 193	0	0 0.31914894	0.2
## 194	0	0 0.29787234	0.3

## 195	1	1 0.76595745	0.9
## 196	1	1 0.23404255	1.0
## 197	1	1 0.44680851	0.9
## 198	1	0 0.29787234	0.7
## 199	0	0 0.29787234	0.4
## 200	1	1 0.08510638	0.9
## 201	1	1 0.17021277	0.6
## 202	1	1 0.17021277	0.7
## 203	1	1 0.91489362	0.9
## 204	0	0 0.46808511	0.3
## 205	1	1 0.76595745	1.0
## 206	1	1 0.06382979	1.0
## 207	1	1 0.17021277	0.7
## 208	0	0 0.70212766	0.6
## 209	1	1 0.23404255	0.8
## 210	1	1 0.42553191	0.9
## 211	1	1 0.27659574	0.5
## 212	0	1 0.31914894	0.6
## 213	0	1 0.36170213	0.4
## 214	0	1 0.53191489	0.5
## 215	1	1 0.10638298	0.8
## 216	0	1 0.42553191	0.4
## 217	0	1 0.46808511	0.4
## 218	0	1 0.02127660	0.7
## 219	0	0 0.78723404	0.2
## 220	0	0 0.53191489	0.3
## 221	0	0 0.21276596	0.1
## 222	0	0 0.10638298	0.6
## 223	1	1 0.10638298	0.8
## 224	1	1 0.08510638	0.9
## 225	0	1 0.23404255	0.4
## 226	1	1 0.00000000	0.9
## 227	0	0 0.23404255	0.1
## 228	0	1 0.08510638	0.5
## 229	1	1 0.29787234	1.0
## 230	0	0 0.06382979	0.3
## 231	0	0 0.08510638	0.2
## 232	0	0 0.10638298	0.3
## 233	1	1 0.08510638	0.4
## 234	0	0 0.14893617	0.2
## 235	0	0 0.14893617	0.2
## 236	0	1 0.17021277	0.6
## 237	0	1 0.00000000	0.2
## 238	1	0 0.08510638	0.3
## 239	0	0 0.12765957	0.2
## 240	0	0 0.08510638	0.5
## 241	1	1 0.10638298	0.6
## 242	0	1 0.14893617	0.4
## 243	1	1 0.36170213	0.5
## 244	0	1 0.27659574	0.6
## 245	0	1 0.25531915	0.4
## 246	0	0 0.06382979	0.5
## 247	1	1 0.12765957	0.6
## 248	0	1 0.19148936	0.2

## 249	1	1 0.06382979	0.8
## 250	0	0 0.51063830	0.3
## 251	0	0 0.14893617	0.4
## 252	0	0 0.38297872	0.2
## 253	0	0 0.12765957	0.2
## 254	0	0 0.40425532	0.3
## 255	0	0 0.34042553	0.4
## 256	1	1 0.14893617	0.5
## 257	0	0 0.17021277	0.4
## 258	0	1 0.17021277	0.5
## 259	1	1 0.17021277	0.5
## 260	0	1 0.14893617	0.3
## 261	0	1 0.21276596	0.5
## 262	0	0 0.19148936	0.3
## 263	0	0 0.19148936	0.0
## 264	1	0 0.12765957	0.4
## 265	0	1 0.27659574	0.7
## 266	1	0 0.17021277	0.3
## 267	0	1 0.12765957	0.3
## 268	0	0 0.36170213	0.5
## 269	0	1 0.06382979	0.6
## 270	1	1 0.10638298	0.7
## 271	1	1 0.34042553	0.7
## 272	1	1 0.61702128	1.0
## 273	0	0 0.00000000	0.2
## 274	0	0 0.59574468	0.4
## 275	1	0 0.19148936	0.4
## 276	1	0 0.27659574	0.3
## 277	0	0 0.31914894	0.2
## 278	1	1 0.44680851	0.9
## 279	0	0 0.19148936	0.3
## 280	0	0 0.25531915	0.1
## 281	1	1 0.34042553	0.8
## 282	1	1 0.31914894	0.7
## 283	1	1 0.57446809	1.0
## 284	0	1 0.63829787	0.3
## 285	1	1 0.31914894	0.6
## 286	0	0 0.48936170	0.0
## 287	0	1 0.48936170	0.5
## 288	0	0 0.57446809	0.0
## 289	1	1 0.82978723	0.8
## 290	1	1 0.12765957	0.8
## 291	1	1 0.31914894	0.7
## 292	0	1 0.21276596	0.5
## 293	0	1 0.23404255	0.4
## 294	0	0 0.48936170	0.0
## 295	1	1 0.59574468	0.7
## 296	1	1 0.04255319	0.8
## 297	1	1 0.80851064	0.8
## 298	0	1 0.21276596	0.5
## 299	1	1 0.04255319	0.9
## 300	0	0 0.25531915	0.3
## 301	1	1 0.34042553	1.0
## 302	0	0 0.65957447	0.6

## 303	1	0 0.42553191	0.2
## 304	1	0 0.27659574	0.6
## 305	0	1 0.42553191	0.4
## 306	1	1 0.23404255	0.7
## 307	1	1 0.06382979	0.8
## 308	1	1 0.17021277	0.8
## 309	0	0 0.87234043	0.7
## 310	0	0 0.40425532	0.2
## 311	0	0 0.40425532	0.4
## 312	1	0 0.04255319	0.7
## 313	1	0 0.04255319	0.7
## 314	0	1 0.10638298	0.5
## 315	0	0 0.06382979	0.3
## 316	0	1 0.14893617	0.4
## 317	1	0 0.04255319	0.4
## 318	0	1 0.08510638	0.6
## 319	0	0 0.06382979	0.0
## 320	0	0 0.02127660	0.2
## 321	0	1 0.12765957	0.4
## 322	0	1 0.10638298	0.8
## 323	0	0 0.02127660	0.4
## 324	0	1 0.42553191	0.2
## 325	0	0 0.02127660	0.5
## 326	0	0 0.02127660	0.5
## 327	0	0 0.02127660	0.2
## 328	0	0 0.02127660	0.4
## 329	0	0 0.02127660	0.3
## 330	0	0 0.02127660	0.4
## 331	1	1 0.04255319	1.0
## 332	1	1 0.80851064	0.7
## 333	1	1 0.31914894	0.5
## 334	0	0 0.70212766	0.5
## 335	0	0 0.48936170	0.6
## 336	0	0 0.63829787	0.4
## 337	0	1 0.06382979	0.3
## 338	0	0 0.10638298	0.4
## 339	0	0 0.08510638	0.2
## 340	1	0 0.08510638	0.6
## 341	0	0 0.04255319	0.6
## 342	0	0 0.08510638	0.3
## 343	0	0 0.08510638	0.2
## 344	0	1 0.12765957	0.5
## 345	0	0 0.08510638	0.1
## 346	1	0 0.08510638	0.5
## 347	0	0 0.12765957	0.1
## 348	1	1 0.06382979	0.8
## 349	0	1 0.08510638	0.5
## 350	1	1 0.06382979	0.8
## 351	0	0 0.04255319	0.4
## 352	0	0 0.08510638	0.2
## 353	0	0 0.19148936	0.3
## 354	0	0 0.08510638	0.2
## 355	0	0 0.04255319	0.2
## 356	0	1 0.10638298	0.4

## 357	0	0 0.04255319	0.2
## 358	0	1 0.10638298	0.4
## 359	0	1 0.06382979	0.2
## 360	0	0 0.12765957	0.4
## 361	0	0 0.04255319	0.2
## 362	0	1 0.06382979	0.3
## 363	0	0 0.14893617	0.2
## 364	0	1 0.04255319	0.4
## 365	0	1 0.06382979	0.4
## 366	0	1 0.12765957	0.5
## 367	0	1 0.06382979	0.4
## 368	0	1 0.06382979	0.5
## 369	1	0 0.06382979	0.2
## 370	0	1 0.06382979	0.3
## 371	0	1 0.08510638	0.5
## 372	0	1 0.04255319	0.2
## 373	0	1 0.06382979	0.3
## 374	0	1 0.06382979	0.5
## 375	1	0 0.17021277	0.3
## 376	0	0 0.06382979	0.2
## 377	0	1 0.10638298	0.5
## 378	0	0 0.06382979	0.2
## 379	0	0 0.06382979	0.3
## 380	0	0 0.06382979	0.2
## 381	0	0 0.12765957	0.2
## 382	1	1 0.08510638	0.8
## 383	0	1 0.10638298	0.4
## 384	0	0 0.08510638	0.3
## 385	0	1 0.06382979	0.3
## 386	0	0 0.10638298	0.2
## 387	0	0 0.08510638	0.6
## 388	0	0 0.06382979	0.4
## 389	0	0 0.06382979	0.2
## 390	0	0 0.08510638	0.3
## 391	1	1 0.08510638	0.6
## 392	0	1 0.12765957	0.4
## 393	0	0 0.08510638	0.3
## 394	0	1 0.10638298	0.5
## 395	0	0 0.04255319	0.5
## 396	0	0 0.06382979	0.4
## 397	0	1 0.08510638	0.3
## 398	0	0 0.19148936	0.3
## 399	0	0 0.04255319	0.1
## 400	0	1 0.06382979	0.5
## 401	0	1 0.19148936	0.3
## 402	0	1 0.12765957	0.4
## 403	0	1 0.23404255	0.4
## 404	0	0 0.04255319	0.3
## 405	0	0 0.06382979	0.3
## 406	0	1 0.04255319	0.5
## 407	1	0 0.14893617	0.8
## 408	0	1 0.04255319	0.5
## 409	0	0 0.10638298	0.2
## 410	0	1 0.06382979	0.4

## 411	0	0 0.08510638	0.3
## 412	0	0 0.14893617	0.4
## 413	0	1 0.02127660	0.4
## 414	0	1 0.04255319	0.7
## 415	0	0 0.04255319	0.2
## 416	0	1 0.29787234	0.4
## 417	0	0 0.04255319	0.5
## 418	1	1 0.08510638	0.4
## 419	0	1 0.06382979	0.4
## 420	0	1 0.19148936	0.6
## 421	0	0 0.21276596	0.1
## 422	0	0 0.12765957	0.4
## 423	0	0 0.25531915	0.2
## 424	0	0 0.12765957	0.5
## 425	0	1 0.12765957	0.4
## 426	1	1 0.14893617	0.8
## 427	0	0 0.08510638	0.4
## 428	0	0 0.06382979	0.2
## 429	1	0 0.06382979	0.6
## 430	1	1 0.31914894	0.9
## 431	1	1 0.93617021	1.0
## 432	0	0 0.04255319	0.3
## 433	1	0 0.38297872	0.8
## 434	0	1 0.36170213	0.3
## 435	0	0 0.12765957	0.2
## 436	0	1 0.04255319	0.5
## 437	0	1 0.40425532	0.6
## 438	0	1 0.08510638	0.4
## 439	0	0 0.12765957	0.2
## 440	0	1 0.00000000	0.6
## 441	0	0 0.10638298	0.2
## 442	0	1 0.34042553	0.6
## 443	0	1 0.12765957	0.7
## 444	0	1 0.38297872	0.7
## 445	0	1 0.08510638	0.3
## 446	1	1 0.06382979	0.7
## 447	0	0 0.25531915	0.2
## 448	1	1 0.89361702	0.9
## 449	0	1 0.02127660	0.5
## 450	0	0 0.04255319	0.3
## 451	0	0 0.14893617	0.3
## 452	1	0 0.40425532	0.7
## 453	0	1 0.04255319	0.4
## 454	0	0 0.00000000	0.3
## 455	0	1 0.74468085	0.3
## 456	0	0 0.02127660	0.4
## 457	0	0 0.27659574	0.1
## 458	1	1 0.02127660	0.8
## 459	0	0 0.21276596	0.6
## 460	0	0 0.74468085	0.1
## 461	0	0 0.59574468	0.1
## 462	1	0 0.17021277	0.6
## 463	0	1 0.25531915	0.3
## 464	0	1 0.25531915	0.8

## 465	0	1 0.02127660	0.3
## 466	1	1 0.02127660	0.7
## 467	0	1 0.00000000	0.5
## 468	1	1 0.21276596	1.0
## 469	0	0 0.10638298	0.1
## 470	1	0 0.12765957	0.3
## 471	0	0 0.17021277	0.7
## 472	0	0 0.12765957	0.4
## 473	0	1 0.25531915	0.3
## 474	0	0 0.21276596	0.4
## 475	0	0 0.21276596	0.3
## 476	0	0 0.55319149	0.0
## 477	0	0 0.19148936	0.2
## 478	0	1 0.27659574	0.4
## 479	0	0 0.12765957	0.1
## 480	0	0 0.25531915	0.4
## 481	0	1 0.42553191	0.2
## 482	0	1 0.23404255	0.2
## 483	0	0 0.17021277	0.6
## 484	0	0 0.17021277	0.5
## 485	1	0 0.08510638	0.3
## 486	1	1 0.55319149	0.9
## 487	1	1 0.27659574	0.7
## 488	0	1 0.02127660	0.4
## 489	0	0 0.02127660	0.5
## 490	1	0 0.27659574	0.7
## 491	0	0 0.29787234	0.0
## 492	0	1 0.34042553	0.5
## 493	1	1 0.34042553	1.0
## 494	0	1 0.19148936	0.6
## 495	0	0 0.93617021	0.3
## 496	0	1 0.61702128	0.3
## 497	1	1 0.34042553	0.8
## 498	0	1 0.44680851	0.8
## 499	0	0 0.57446809	0.3
## 500	1	0 0.65957447	0.5
## 501	1	1 0.53191489	0.8
## 502	0	0 0.42553191	0.4
## 503	0	1 0.12765957	0.6
## 504	1	1 0.14893617	0.8
## 505	0	1 0.51063830	0.6
## 506	0	1 0.51063830	0.4
## 507	0	0 0.21276596	0.4
## 508	1	1 0.61702128	1.0
## 509	0	1 0.48936170	0.2
## 510	0	1 0.10638298	0.8
## 511	1	1 0.53191489	0.9
## 512	0	1 0.02127660	0.4
## 513	0	0 0.57446809	0.3
## 514	1	1 0.27659574	0.9
## 515	1	1 0.53191489	0.9
## 516	0	0 0.38297872	0.4
## 517	1	1 0.48936170	0.7
## 518	1	1 0.70212766	0.3

## 519	0	1 0.44680851	0.3
## 520	1	1 0.19148936	0.8
## 521	0	1 0.21276596	0.7
## 522	1	0 0.63829787	0.7
## 523	0	1 0.08510638	0.6
## 524	1	1 0.42553191	0.8
## 525	0	1 0.04255319	0.4
## 526	0	1 0.31914894	0.4
## 527	0	1 0.19148936	0.3
## 528	1	1 0.61702128	1.0
## 529	0	0 0.25531915	0.2
## 530	0	0 0.27659574	0.2
## 531	0	0 0.31914894	0.4
## 532	0	1 0.38297872	0.4
## 533	1	1 0.10638298	0.9
## 534	0	1 0.04255319	0.4
## 535	0	1 0.14893617	0.3
## 536	0	0 0.74468085	0.2
## 537	1	1 0.74468085	0.5
## 538	0	0 0.31914894	0.4
## 539	0	1 0.14893617	0.6
## 540	1	1 0.14893617	0.9
## 541	0	0 0.68085106	0.1
## 542	1	1 0.27659574	0.9
## 543	1	1 0.27659574	0.9
## 544	1	1 0.38297872	0.9
## 545	0	1 0.38297872	0.7
## 546	0	1 0.42553191	0.4
## 547	0	1 0.55319149	0.5
## 548	0	1 0.74468085	0.6
## 549	1	1 0.57446809	1.0
## 550	0	0 0.61702128	0.2
## 551	0	1 0.53191489	0.3
## 552	0	0 0.06382979	0.1
## 553	1	1 0.02127660	0.7
## 554	1	1 0.44680851	0.9
## 555	0	0 0.14893617	0.4
## 556	0	0 0.31914894	0.3
## 557	0	0 0.25531915	0.4
## 558	0	1 0.10638298	0.9
## 559	0	1 0.04255319	0.6
## 560	1	1 0.46808511	0.9
## 561	1	1 0.00000000	0.8
## 562	1	1 0.04255319	0.6
## 563	1	0 0.02127660	0.4
## 564	1	0 0.04255319	0.4
## 565	0	0 0.23404255	0.2
## 566	0	1 0.25531915	0.4
## 567	0	0 0.65957447	0.4
## 568	1	1 0.21276596	0.9
## 569	0	0 0.36170213	0.3
## 570	0	1 0.29787234	0.4
## 571	0	1 0.63829787	0.3
## 572	0	0 0.63829787	0.3

## 573	1	1 0.57446809	1.0
## 574	0	0 0.17021277	0.4
## 575	0	0 0.17021277	0.4
## 576	1	1 0.06382979	0.8
## 577	1	1 0.55319149	0.9
## 578	1	1 0.40425532	0.8
## 579	0	0 0.27659574	0.3
## 580	0	0 0.57446809	0.2
## 581	0	1 0.48936170	0.4
## 582	1	0 0.48936170	0.6
## 583	1	0 0.48936170	0.7
## 584	0	1 0.27659574	0.7
## 585	0	1 0.63829787	0.5
## 586	1	1 0.08510638	1.0
## 587	1	1 0.08510638	0.9
## 588	1	1 0.29787234	0.9
## 589	0	0 0.08510638	0.3
## 590	1	0 0.25531915	0.5
## 591	1	0 0.10638298	0.6
## 592	1	1 0.72340426	1.0
## 593	0	0 0.12765957	0.1
## 594	1	1 0.27659574	0.4
## 595	0	0 0.10638298	0.3
## 596	0	1 0.10638298	0.4
## 597	0	1 0.14893617	0.5
## 598	0	1 0.19148936	0.3
## 599	1	1 0.34042553	0.6
## 600	1	0 0.12765957	0.3
## 601	0	0 0.53191489	0.3
## 602	0	0 0.19148936	0.2
## 603	0	0 0.25531915	0.2
## 604	0	1 0.38297872	0.3
## 605	0	0 0.17021277	0.4
## 606	0	0 0.17021277	0.3
## 607	0	0 0.23404255	0.1
## 608	0	0 0.34042553	0.1
## 609	0	0 0.17021277	0.4
## 610	0	1 0.17021277	0.5
## 611	0	0 0.14893617	0.4
## 612	0	1 0.21276596	0.5
## 613	0	0 0.10638298	0.1
## 614	0	1 0.08510638	0.5
## 615	0	1 0.21276596	0.6
## 616	0	0 0.12765957	0.3
## 617	0	1 0.10638298	0.4
## 618	0	1 0.12765957	0.2
## 619	0	1 0.27659574	0.4
## 620	0	0 0.34042553	0.4
## 621	1	0 0.14893617	0.7
## 622	0	0 0.10638298	0.4
## 623	1	1 0.10638298	0.7
## 624	0	1 0.25531915	0.3
## 625	0	1 0.10638298	0.6
## 626	0	0 0.08510638	0.3

## 627	0	0 0.12765957	0.3
## 628	0	1 0.12765957	0.5
## 629	1	1 0.12765957	0.6
## 630	0	0 0.31914894	0.6
## 631	0	1 0.21276596	0.2
## 632	0	0 0.23404255	0.2
## 633	1	1 0.17021277	0.6
## 634	1	1 0.10638298	0.7
## 635	0	1 0.40425532	0.4
## 636	0	0 0.21276596	0.0
## 637	1	1 0.08510638	1.0
## 638	0	0 0.02127660	0.5
## 639	1	1 0.68085106	0.7
## 640	0	0 0.02127660	0.4
## 641	1	0 0.25531915	0.7
## 642	0	0 0.29787234	0.2
## 643	0	0 0.42553191	0.1
## 644	0	1 0.00000000	0.6
## 645	1	1 0.00000000	0.7
## 646	0	0 0.44680851	0.4
## 647	0	1 0.02127660	0.5
## 648	0	0 0.29787234	0.4
## 649	0	0 0.34042553	0.3
## 650	0	0 0.31914894	0.2
## 651	0	1 0.27659574	0.3
## 652	0	1 0.34042553	0.1
## 653	1	1 0.27659574	1.0
## 654	1	1 0.27659574	0.9
## 655	0	1 0.44680851	0.5
## 656	1	1 0.10638298	0.5
## 657	1	0 0.40425532	0.5
## 658	0	0 0.55319149	0.3
## 659	1	1 0.57446809	0.8
## 660	1	1 0.06382979	0.8
## 661	1	1 0.48936170	0.9
## 662	1	0 0.17021277	0.5
## 663	0	1 0.23404255	0.4
## 664	0	1 0.00000000	0.3
## 665	1	1 0.36170213	0.9
## 666	0	0 0.82978723	0.1
## 667	0	0 0.70212766	0.3
## 668	0	1 0.44680851	0.4
## 669	1	1 0.63829787	1.0
## 670	1	1 0.27659574	0.9
## 671	0	1 0.08510638	0.7
## 672	0	1 0.08510638	0.8
## 673	1	1 0.29787234	0.8
## 674	0	1 0.21276596	0.6
## 675	1	0 0.14893617	0.5
## 676	0	1 0.38297872	0.4
## 677	0	1 0.02127660	0.3
## 678	1	1 0.55319149	0.8
## 679	1	1 0.57446809	1.0
## 680	1	1 0.48936170	1.0

```
## 681      1      1 0.68085106      0.9
## 682      0      0 0.14893617      0.3
## 683      1      0 0.27659574      0.4
## 684      0      1 0.76595745      0.4
## 685      1      1 0.44680851      0.7
## 686      0      1 0.23404255      0.5
## 687      1      1 0.23404255      0.9
## 688      1      1 0.19148936      0.8
## 689      1      1 0.46808511      0.7
## 690      0      0 0.29787234      0.1
## 691      0      0 0.14893617      0.4
## 692      0      1 0.23404255      0.8
## 693      0      1 0.29787234      0.4
## 694      0      1 0.21276596      0.7
## 695      0      0 0.23404255      0.5
## 696      1      1 0.29787234      0.9
## 697      0      1 0.61702128      0.6
## 698      1      1 0.21276596      1.0
## 699      1      1 0.17021277      0.7
## 700      0      1 0.36170213      0.3
## 701      0      1 0.14893617      0.7
## 702      1      1 0.38297872      0.6
## 703      1      1 0.19148936      0.8
```

NOTE:There are 97 features in our dataset overall, not including the target variable. As there are no variables that can be combined to form a new feature or which can be split to create two new features, there is no need to apply feature engineering or derived features. Another reason for not applying any kind of transformation to our features is that our algorithms do make the assumption of normality and will not be affected even if the data does not have normal distribution.

```
# Use PCA to select features
PCA_data <- cbind(numerical_aut_data, catgl_autism_data)
# removing the target column before performing PCA
PCA_data <- PCA_data[, -98]
colnames(PCA_data)
```

```
## [1] "A1_Score"      "A2_Score"
## [3] "A3_Score"      "A4_Score"
## [5] "A5_Score"      "A6_Score"
## [7] "A7_Score"      "A8_Score"
## [9] "A9_Score"      "A10_Score"
## [11] "age"           "result"
## [13] "gender"        "ethnicityAsian"
## [15] "ethnicityBlack" "ethnicityHispanic"
## [17] "ethnicityLatino" "ethnicityMiddle.Eastern."
```

```
## [19] "ethnicityOthers"           "ethnicityPasifika"
## [21] "ethnicitySouth.Asian"      "ethnicityTurkish"
## [23] "ethnicityWhite.European"   "jundice"
## [25] "austim"                    "contry_of_resAfghanistan"
## [27] "contry_of_resAmericanSamoa" "contry_of_resAngola"
## [29] "contry_of_resArgentina"    "contry_of_resArmenia"
## [31] "contry_of_resAruba"        "contry_of_resAustralia"
## [33] "contry_of_resAustria"      "contry_of_resAzerbaijan"
## [35] "contry_of_resBahamas"      "contry_of_resBangladesh"
## [37] "contry_of_resBelgium"      "contry_of_resBolivia"
## [39] "contry_of_resBrazil"       "contry_of_resBurundi"
## [41] "contry_of_resCanada"       "contry_of_resChile"
## [43] "contry_of_resChina"        "contry_of_resCosta.Rica"
## [45] "contry_of_resCyprus"        "contry_of_resCzech.Republic"
## [47] "contry_of_resEcuador"      "contry_of_resEgypt"
## [49] "contry_of_resEthiopia"     "contry_of_resFinland"
## [51] "contry_of_resFrance"       "contry_of_resGermany"
## [53] "contry_of_resHong.Kong"    "contry_of_resIceland"
## [55] "contry_of_resIndia"        "contry_of_resIndonesia"
## [57] "contry_of_resIran"         "contry_of_resIraq"
## [59] "contry_of_resIreland"      "contry_of_resItaly"
## [61] "contry_of_resJapan"        "contry_of_resJordan"
## [63] "contry_of_resKazakhstan"   "contry_of_resLebanon"
## [65] "contry_of_resMalaysia"     "contry_of_resMexico"
## [67] "contry_of_resNepal"        "contry_of_resNetherlands"
## [69] "contry_of_resNew.Zealand"  "contry_of_resNicaragua"
## [71] "contry_of_resNiger"        "contry_of_resOman"
## [73] "contry_of_resPakistan"     "contry_of_resPhilippines"
## [75] "contry_of_resPortugal"     "contry_of_resRomania"
## [77] "contry_of_resRussia"       "contry_of_resSaudi.Arabia"
## [79] "contry_of_resSerbia"       "contry_of_resSierra.Leone"
## [81] "contry_of_resSouth.Africa" "contry_of_resSpain"
## [83] "contry_of_resSri.Lanka"    "contry_of_resSweden"
## [85] "contry_of_resTonga"        "contry_of_resTurkey"
## [87] "contry_of_resUkraine"      "contry_of_resUnited.Arab.Emirates"
## [89] "contry_of_resUnited.Kingdom" "contry_of_resUnited.States"
## [91] "contry_of_resUruguay"      "contry_of_resViet.Nam"
## [93] "used_app_before"           "relationHealth.care.professional"
## [95] "relationParent"            "relationRelative"
## [97] "relationSelf"
```

```
# performing scaled PCA
```

```
PCA_scaled <- prcomp(PCA_data, scale. = TRUE, center = TRUE)
summ_PCA_scaled <- summary(PCA_scaled)
summ_PCA_scaled$importance[2,]
```

```
##      PC1      PC2      PC3      PC4      PC5      PC6      PC7      PC8      PC9      PC10
## 0.04889 0.02595 0.02177 0.02041 0.01926 0.01870 0.01667 0.01659 0.01609 0.01582
##      PC11     PC12     PC13     PC14     PC15     PC16     PC17     PC18     PC19     PC20
## 0.01564 0.01542 0.01445 0.01441 0.01401 0.01347 0.01299 0.01280 0.01264 0.01247
##      PC21     PC22     PC23     PC24     PC25     PC26     PC27     PC28     PC29     PC30
## 0.01188 0.01169 0.01161 0.01141 0.01128 0.01107 0.01092 0.01086 0.01074 0.01069
##      PC31     PC32     PC33     PC34     PC35     PC36     PC37     PC38     PC39     PC40
## 0.01055 0.01053 0.01047 0.01045 0.01043 0.01041 0.01040 0.01040 0.01038 0.01038
```

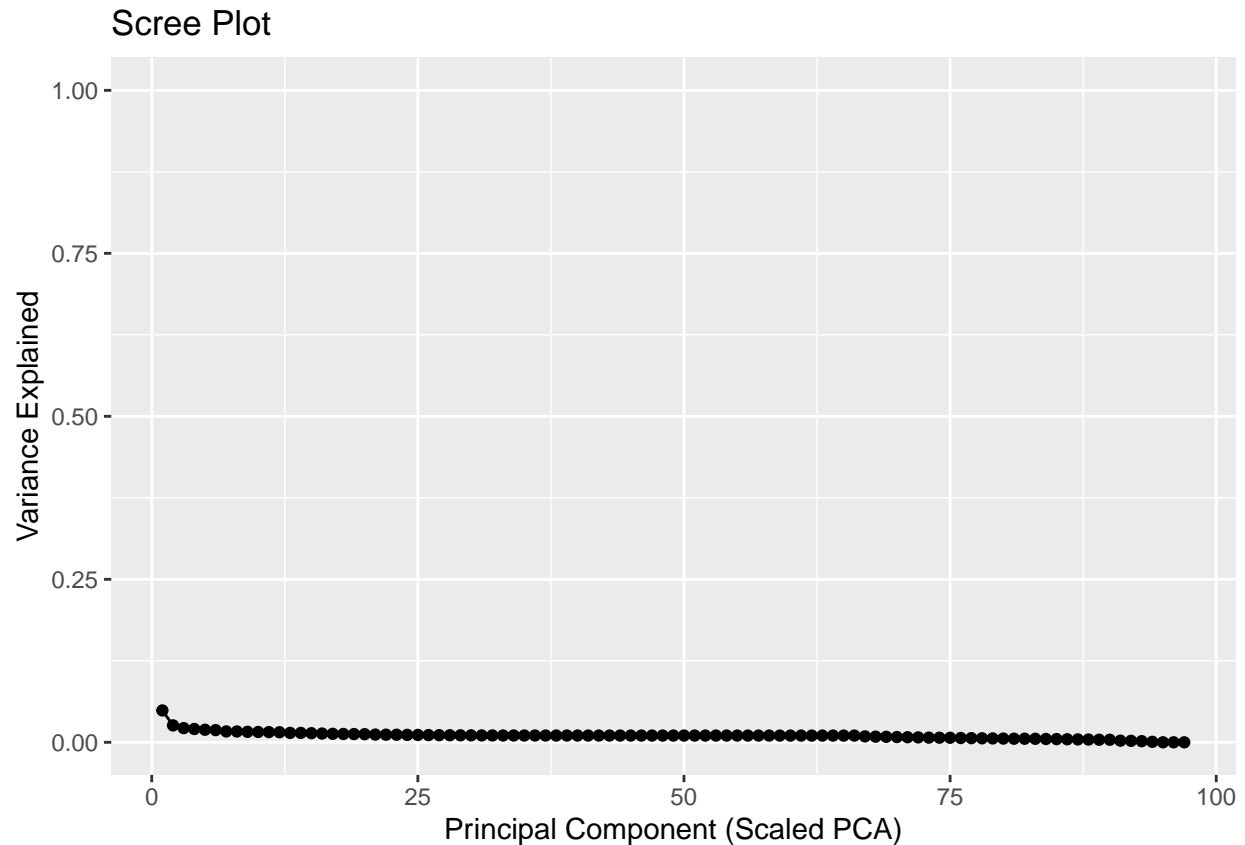
```
##      PC41      PC42      PC43      PC44      PC45      PC46      PC47      PC48      PC49      PC50
## 0.01038 0.01037 0.01037 0.01037 0.01036 0.01036 0.01035 0.01035 0.01035 0.01034
##      PC51      PC52      PC53      PC54      PC55      PC56      PC57      PC58      PC59      PC60
## 0.01034 0.01034 0.01034 0.01033 0.01033 0.01033 0.01033 0.01033 0.01033 0.01033
##      PC61      PC62      PC63      PC64      PC65      PC66      PC67      PC68      PC69      PC70
## 0.01032 0.01032 0.01032 0.01032 0.01032 0.01032 0.00909 0.00865 0.00844 0.00807
##      PC71      PC72      PC73      PC74      PC75      PC76      PC77      PC78      PC79      PC80
## 0.00779 0.00751 0.00716 0.00701 0.00697 0.00656 0.00640 0.00615 0.00592 0.00569
##      PC81      PC82      PC83      PC84      PC85      PC86      PC87      PC88      PC89      PC90
## 0.00551 0.00548 0.00541 0.00506 0.00491 0.00465 0.00446 0.00423 0.00396 0.00391
##      PC91      PC92      PC93      PC94      PC95      PC96      PC97
## 0.00249 0.00224 0.00171 0.00073 0.00000 0.00000 0.00000
```

```
var_scaled <- PCA_scaled$sdev^2 / sum(PCA_scaled$sdev^2)
var_scaled
```

```
## [1] 4.889256e-02 2.594803e-02 2.176510e-02 2.040904e-02 1.926158e-02
## [6] 1.869921e-02 1.666947e-02 1.658714e-02 1.608963e-02 1.581614e-02
## [11] 1.563715e-02 1.542423e-02 1.445229e-02 1.440710e-02 1.400860e-02
## [16] 1.347411e-02 1.298813e-02 1.279803e-02 1.263579e-02 1.247434e-02
## [21] 1.188109e-02 1.169255e-02 1.161020e-02 1.140667e-02 1.128418e-02
## [26] 1.106558e-02 1.091880e-02 1.085553e-02 1.073962e-02 1.068812e-02
## [31] 1.054898e-02 1.053097e-02 1.046834e-02 1.045115e-02 1.043235e-02
## [36] 1.041157e-02 1.040194e-02 1.039872e-02 1.038276e-02 1.037829e-02
## [41] 1.037630e-02 1.037073e-02 1.036893e-02 1.036726e-02 1.036068e-02
## [46] 1.035628e-02 1.035416e-02 1.035066e-02 1.034546e-02 1.034284e-02
## [51] 1.033965e-02 1.033812e-02 1.033652e-02 1.033415e-02 1.033211e-02
## [56] 1.033136e-02 1.032894e-02 1.032789e-02 1.032681e-02 1.032562e-02
## [61] 1.032492e-02 1.032468e-02 1.032440e-02 1.032399e-02 1.032396e-02
## [66] 1.032396e-02 9.092377e-03 8.649994e-03 8.440216e-03 8.066639e-03
## [71] 7.790055e-03 7.514609e-03 7.159540e-03 7.014764e-03 6.966526e-03
## [76] 6.560508e-03 6.399497e-03 6.151210e-03 5.923096e-03 5.688282e-03
## [81] 5.507526e-03 5.483477e-03 5.407426e-03 5.058265e-03 4.907720e-03
## [86] 4.649017e-03 4.458306e-03 4.233942e-03 3.961926e-03 3.905161e-03
## [91] 2.491824e-03 2.238729e-03 1.707774e-03 7.261360e-04 3.641344e-32
## [96] 1.865096e-32 1.001831e-32
```

```
# plotting scree plot for scaled PCA
qplot(c(1:97), var_scaled) +
  geom_line() +
  xlab("Principal Component (Scaled PCA)") +
  ylab("Variance Explained") +
  ggtitle("Scree Plot") +
  ylim(0, 1)
```

```
## Warning: 'qplot()' was deprecated in ggplot2 3.4.0.
```

In scaled PCA, the first principal component explains 0.04889 or 4.9% of the variance and the second principal component explains 0.02595 or 2.6% of the variance

```
# performing unscaled PCA
PCA_unscaled <- prcomp(PCA_data)
summ_PCA_unscaled <- summary(PCA_unscaled)
summ_PCA_unscaled
```

```
## Importance of components:
##          PC1      PC2      PC3      PC4      PC5      PC6      PC7
## Standard deviation  9.7048 2.62280 0.58556 0.56836 0.51553 0.49585 0.49331
## Proportion of Variance 0.8959 0.06543 0.00326 0.00307 0.00253 0.00234 0.00231
## Cumulative Proportion 0.8959 0.96130 0.96457 0.96764 0.97017 0.97250 0.97482
##          PC8      PC9      PC10     PC11     PC12     PC13     PC14
## Standard deviation  0.45747 0.44993 0.43774 0.41800 0.39434 0.38862 0.38472
## Proportion of Variance 0.00199 0.00193 0.00182 0.00166 0.00148 0.00144 0.00141
## Cumulative Proportion 0.97681 0.97874 0.98056 0.98222 0.98370 0.98514 0.98654
##          PC15     PC16     PC17     PC18     PC19     PC20     PC21
## Standard deviation  0.36234 0.34819 0.33639 0.33164 0.30533 0.29257 0.27853
## Proportion of Variance 0.00125 0.00115 0.00108 0.00105 0.00089 0.00081 0.00074
## Cumulative Proportion 0.98779 0.98895 0.99002 0.99107 0.99195 0.99277 0.99351
##          PC22     PC23     PC24     PC25     PC26     PC27     PC28
## Standard deviation  0.27380 0.24424 0.23817 0.21472 0.20061 0.18013 0.1776
## Proportion of Variance 0.00071 0.00057 0.00054 0.00044 0.00038 0.00031 0.0003
## Cumulative Proportion 0.99422 0.99479 0.99533 0.99577 0.99615 0.99646 0.9968
##          PC29     PC30     PC31     PC32     PC33     PC34     PC35
## Standard deviation  0.16740 0.14089 0.13616 0.13037 0.12906 0.12334 0.11707
```

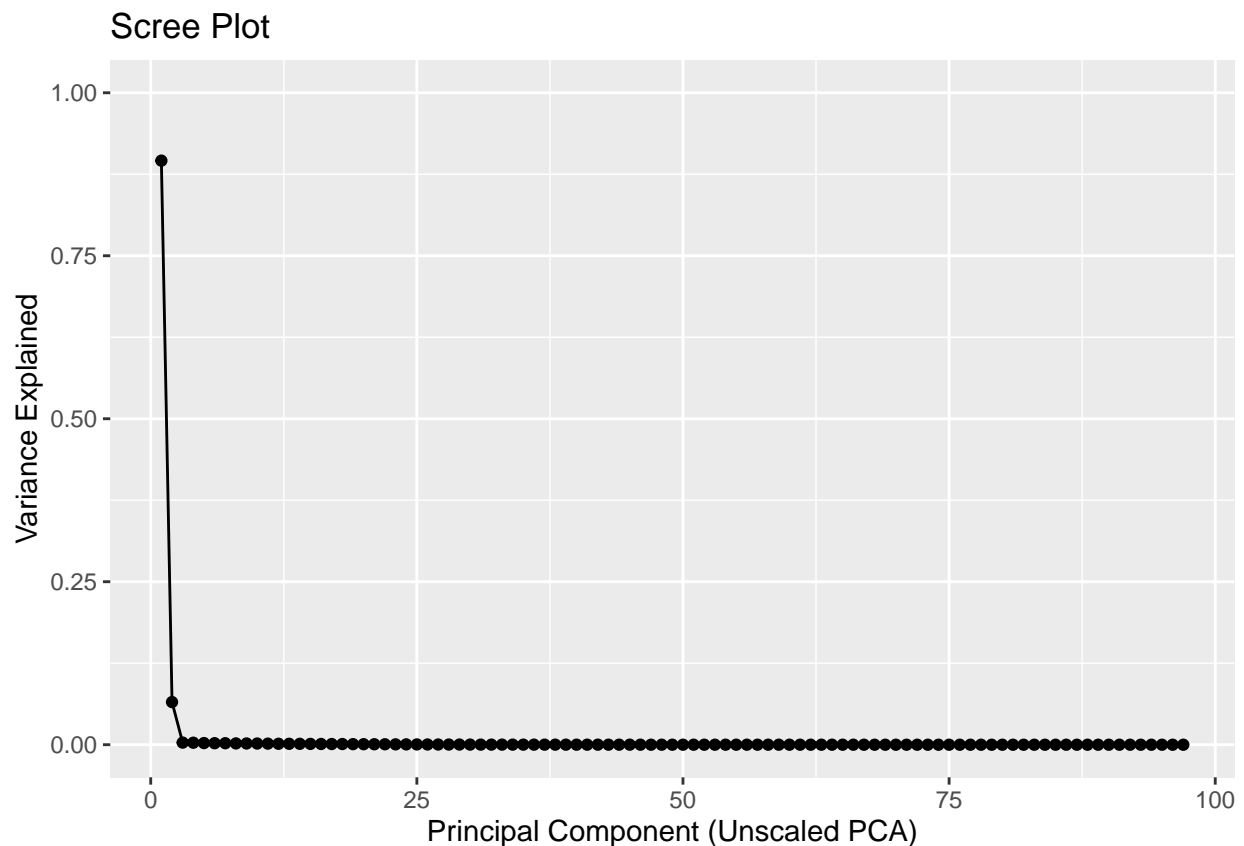
```
## Proportion of Variance 0.00027 0.00019 0.00018 0.00016 0.00016 0.00014 0.00013
## Cumulative Proportion 0.99702 0.99721 0.99739 0.99755 0.99771 0.99785 0.99798
## PC36 PC37 PC38 PC39 PC40 PC41 PC42
## Standard deviation 0.11102 0.10803 0.1043 0.09930 0.09768 0.09577 0.08868
## Proportion of Variance 0.00012 0.00011 0.0001 0.00009 0.00009 0.00009 0.00007
## Cumulative Proportion 0.99810 0.99821 0.9983 0.99841 0.99850 0.99859 0.99866
## PC43 PC44 PC45 PC46 PC47 PC48 PC49
## Standard deviation 0.08394 0.08317 0.08144 0.07800 0.07566 0.07489 0.07388
## Proportion of Variance 0.00007 0.00007 0.00006 0.00006 0.00005 0.00005 0.00005
## Cumulative Proportion 0.99873 0.99880 0.99886 0.99892 0.99897 0.99902 0.99908
## PC50 PC51 PC52 PC53 PC54 PC55 PC56
## Standard deviation 0.07209 0.06962 0.06763 0.06474 0.06382 0.06322 0.06238
## Proportion of Variance 0.00005 0.00005 0.00004 0.00004 0.00004 0.00004 0.00004
## Cumulative Proportion 0.99913 0.99917 0.99921 0.99925 0.99929 0.99933 0.99937
## PC57 PC58 PC59 PC60 PC61 PC62 PC63
## Standard deviation 0.06084 0.05994 0.05613 0.05294 0.05232 0.05176 0.05111
## Proportion of Variance 0.00004 0.00003 0.00003 0.00003 0.00003 0.00003 0.00002
## Cumulative Proportion 0.99940 0.99944 0.99947 0.99949 0.99952 0.99955 0.99957
## PC64 PC65 PC66 PC67 PC68 PC69 PC70
## Standard deviation 0.05052 0.05019 0.04805 0.04405 0.04074 0.03774 0.03774
## Proportion of Variance 0.00002 0.00002 0.00002 0.00002 0.00002 0.00001 0.00001
## Cumulative Proportion 0.99960 0.99962 0.99964 0.99966 0.99968 0.99969 0.99970
## PC71 PC72 PC73 PC74 PC75 PC76 PC77
## Standard deviation 0.03774 0.03772 0.03770 0.03768 0.03761 0.03757 0.03750
## Proportion of Variance 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001
## Cumulative Proportion 0.99972 0.99973 0.99974 0.99976 0.99977 0.99978 0.99980
## PC78 PC79 PC80 PC81 PC82 PC83 PC84
## Standard deviation 0.03742 0.03737 0.03733 0.03710 0.03686 0.03669 0.03659
## Proportion of Variance 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001
## Cumulative Proportion 0.99981 0.99982 0.99984 0.99985 0.99986 0.99988 0.99989
## PC85 PC86 PC87 PC88 PC89 PC90 PC91
## Standard deviation 0.03640 0.03595 0.03584 0.03571 0.03521 0.03502 0.03341
## Proportion of Variance 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001
## Cumulative Proportion 0.99990 0.99991 0.99993 0.99994 0.99995 0.99996 0.99997
## PC92 PC93 PC94 PC95 PC96 PC97
## Standard deviation 0.03329 0.03272 0.02874 4.343e-15 1.624e-15 2.24e-16
## Proportion of Variance 0.00001 0.00001 0.00001 0.000e+00 0.000e+00 0.00e+00
## Cumulative Proportion 0.99998 0.99999 1.00000 1.000e+00 1.000e+00 1.00e+00
```

```
var_unscaled <- PCA_unscaled$sdev^2 / sum(PCA_unscaled$sdev^2)
var_unscaled
```

```
## [1] 8.958702e-01 6.543343e-02 3.261449e-03 3.072710e-03 2.527994e-03
## [6] 2.338709e-03 2.314822e-03 1.990631e-03 1.925566e-03 1.822678e-03
## [11] 1.661943e-03 1.479140e-03 1.436535e-03 1.407821e-03 1.248821e-03
## [16] 1.153179e-03 1.076333e-03 1.046202e-03 8.867421e-04 8.141947e-04
## [21] 7.379317e-04 7.130993e-04 5.674283e-04 5.395552e-04 4.385650e-04
## [26] 3.828109e-04 3.086195e-04 2.999022e-04 2.665512e-04 1.888010e-04
## [31] 1.763498e-04 1.616571e-04 1.584417e-04 1.446959e-04 1.303671e-04
## [36] 1.172478e-04 1.110078e-04 1.035078e-04 9.380114e-05 9.076055e-05
## [41] 8.723607e-05 7.480831e-05 6.701534e-05 6.579001e-05 6.307995e-05
## [46] 5.786980e-05 5.444641e-05 5.334964e-05 5.192155e-05 4.943062e-05
## [51] 4.610092e-05 4.350214e-05 3.986910e-05 3.873665e-05 3.801895e-05
## [56] 3.700889e-05 3.521101e-05 3.417624e-05 2.997256e-05 2.665905e-05
```

```
## [61] 2.603710e-05 2.548463e-05 2.484677e-05 2.427758e-05 2.396233e-05
## [66] 2.195679e-05 1.845695e-05 1.578866e-05 1.354977e-05 1.354977e-05
## [71] 1.354848e-05 1.353519e-05 1.352157e-05 1.350200e-05 1.345758e-05
## [76] 1.342510e-05 1.337876e-05 1.331641e-05 1.328059e-05 1.325390e-05
## [81] 1.309374e-05 1.292344e-05 1.280331e-05 1.273584e-05 1.260238e-05
## [86] 1.229196e-05 1.222009e-05 1.213253e-05 1.179274e-05 1.166231e-05
## [91] 1.061660e-05 1.054368e-05 1.018294e-05 7.855719e-06 1.794417e-31
## [96] 2.508540e-32 4.772531e-34
```

```
# plotting scree plot for unscaled PCA
qplot(c(1:97), var_unscaled) +
  geom_line() +
  xlab("Principal Component (Unscaled PCA)") +
  ylab("Variance Explained") +
  ggtitle("Scree Plot") +
  ylim(0, 1)
```



#According to unscaled PCA, the first principal component accounts for 89.6% of the variance, or 0.8958

```
# We can see that unscaled PCA performs better than scaled PCA in terms of reducing the dimensions of t
Class.ASD <- catgl_autism_data$Class.ASD
data <- cbind(as.data.frame(PCA_unscaled$x[,1:5]), Class.ASD)
data
```

```
##          PC1          PC2          PC3          PC4          PC5
```

## 1	3.13648208	-1.2941689175	0.412128939	0.865608295	-0.1979304499
## 2	5.18081872	-0.2597448405	0.032340549	0.222035840	0.3194867792
## 3	2.08781403	-3.3116777781	0.001425604	-1.023481338	0.0988158665
## 4	-5.86087923	-1.0375301438	0.021060088	0.664753700	-0.7576262728
## 5	-10.70351096	3.4322240233	0.118698534	-0.892124071	-0.6165800173
## 6	-6.93232970	-4.0911352459	-0.024982031	-0.707681409	0.4885385027
## 7	12.26505505	2.6376772807	0.483045308	0.622768562	0.0810544464
## 8	-34.81424844	0.9230266844	0.797717431	-0.369788164	0.7053196490
## 9	0.14174275	-1.2339785404	-0.110981354	0.445959955	0.2844754187
## 10	12.08064938	-3.5880800784	0.225753835	-0.616463174	0.6751698891
## 11	-3.97984651	-5.2863474559	0.308550103	-0.432074212	0.3576926594
## 12	11.14868436	-1.5112994587	0.747211054	-0.524184238	-0.4445480197
## 13	12.14163150	-1.5737658808	1.620671668	-0.635666635	0.1098530096
## 14	12.22555127	0.6499362669	-0.433903948	-1.109205570	-0.4173402250
## 15	12.22352708	0.6432476722	-0.216841642	-0.951311950	-1.1214812437
## 16	11.15001758	-1.4490055574	0.369790806	-0.499205330	0.3986636155
## 17	-1.79775565	-0.0003774109	-0.883604017	-0.584940694	0.0306129462
## 18	-0.73032873	2.9946513450	-0.310684722	0.544701876	0.1405340489
## 19	-5.74749335	2.0875374642	0.600061580	0.249171459	0.1205492422
## 20	-4.73191992	2.2002001658	-0.227508712	-1.316255732	-0.0227808898
## 21	-8.74105735	2.2896973045	1.331610985	-0.720226236	0.8731863388
## 22	2.34082490	5.0200034609	0.340921399	0.413873561	-0.2719297012
## 23	2.19135909	-0.1777131472	-0.535016134	-0.261816898	0.4028166894
## 24	-12.69890350	3.4678964251	0.004850729	-0.762045430	0.5335747755
## 25	-13.79731628	0.4023922047	0.689840526	-0.925367918	0.7342349826
## 26	5.24488441	1.8755612181	1.165956681	-0.604302987	0.1772263023
## 27	-10.68176238	4.3958168678	-0.154680635	0.018554370	0.5780176628
## 28	-10.68647624	4.4200675146	0.207108946	-0.686995694	0.5329274441
## 29	-18.67543609	4.6569855165	-0.530267243	-0.098443629	0.6770431934
## 30	-1.79235693	0.9581459149	0.600327260	0.263293278	0.9109812727
## 31	11.30831255	4.6691876842	0.335936162	1.017309824	0.0837752374
## 32	-7.88776568	-2.0813015981	-0.436490929	0.400432322	-1.0357393576
## 33	-25.76022136	1.7810289855	-0.226652778	-0.617228886	-0.7070239490
## 34	11.00858276	-5.7589340189	0.289152602	0.364096549	-0.3664027587
## 35	11.01253008	-5.7495909599	0.218324280	0.387665405	-0.3597087922
## 36	-25.69234224	4.7749194588	0.119023190	0.516496873	0.6401885956
## 37	-20.81704555	-0.5030651807	0.053216412	-0.353696576	1.3140163725
## 38	-4.86394538	-1.1402205528	0.470074467	0.596965019	-0.2712152136
## 39	-23.87549740	-1.5861959966	-0.469482262	0.006040272	-0.9224089392
## 40	-5.92761321	-3.1874356694	-0.078426845	0.427951511	-0.6885294382
## 41	9.12160846	-2.5098251825	-0.340840376	0.062714302	-0.5082388941
## 42	1.27775520	2.9247634104	-0.172474536	0.293669092	-0.2139817211
## 43	-4.75894554	2.0571153893	0.603363468	0.469636826	-0.1319492769
## 44	-6.81702066	0.9859645658	1.208377758	1.100886059	-0.1729893290
## 45	2.07883203	-3.3649163829	0.417258053	0.671503132	-0.1390132110
## 46	-23.87393323	-1.5412282617	0.350557379	-0.380283796	-0.0833671017
## 47	5.17500035	-0.2542711763	1.218886165	-0.071500412	0.0115588710
## 48	5.21277676	0.7412313757	0.329015327	-0.492638273	0.5421546856
## 49	-25.75506635	2.7214494143	0.908844287	-0.151719930	0.8523287697
## 50	-0.83376320	-1.0651268959	-0.770874416	-0.058217444	-0.4610041836
## 51	8.24478405	1.7345914512	-0.045578510	0.422534453	-0.4003665718
## 52	-5.96456912	-5.1454402972	0.297994689	-1.032074045	-0.2321439199
## 54	8.09016669	-3.5405656128	-0.513248395	-0.162978509	0.1155238355
## 55	-17.97112911	-4.8776446317	-0.183779960	0.033121343	0.4559933604

## 56	-0.93456582	-4.2758819390	-0.043913374	0.039656604	0.2009037940
## 57	1.07750518	-3.3952970127	0.106557145	0.494685890	-0.4402302339
## 58	-13.94384260	-3.9544658456	0.362064947	0.371468967	-0.1010382230
## 59	-2.74778284	2.0464706990	-0.374412498	0.212381319	-0.4952765492
## 60	-14.81911184	0.3130508709	0.551614000	0.785189255	0.0313370537
## 61	9.09725128	-3.5286195258	-0.194633994	-0.468903777	-0.6929720063
## 62	9.12588495	-2.4592728728	-0.091805040	-0.372697505	-0.7161851615
## 63	2.34189854	5.0612512391	0.531823615	-0.743815617	0.1308427824
## 64	10.16635942	-0.4809917333	0.232858217	-0.157254944	0.0623174270
## 65	0.05270967	-4.3530729108	0.098134192	0.450713493	-0.4396679564
## 66	8.24604358	1.7434268952	-0.059039632	0.401688861	0.6991842099
## 67	2.28234532	3.0312833295	0.553695113	-0.502887272	0.8490299238
## 68	8.15318954	-1.4311397861	-0.557624437	-0.017401635	0.3733659275
## 69	-5.76737535	1.1096888435	-0.791230862	-0.257537515	-0.1205376486
## 70	-12.68344733	4.4083337207	-0.241974643	0.002662000	0.5119160083
## 71	0.19469614	-0.0382302223	-0.559596785	0.044812634	-0.4986810411
## 72	-28.73050240	2.8745057188	-0.565989763	-0.033009960	1.1749788747
## 73	8.15501080	-1.3887086837	-0.284307963	-0.303755234	0.0428672153
## 74	8.15006166	-1.3817994097	0.306056786	-0.236534447	0.5772413756
## 75	-7.86692933	-1.0938040670	0.353404040	0.673437310	-0.1650827196
## 76	8.12085068	-2.4579711482	-0.221699650	0.035189412	0.4076514268
## 77	9.25053220	1.7312657339	-0.657345150	0.116903361	0.1954732773
## 78	-3.91283682	-3.1880244568	0.015951041	-0.086451982	-0.2746755489
## 79	9.21100061	0.5932982876	-0.031581259	0.372463211	0.0816677201
## 80	-15.70849720	3.5736547832	0.935263299	-0.984997520	-0.5607603453
## 81	-2.81310326	-0.0118135350	0.236822655	-1.124100639	0.1713319353
## 82	-0.73903390	2.0701188713	-0.137233823	-1.318597709	-0.6043859436
## 83	-3.98367980	-5.3120653099	0.179081842	0.258409276	-0.3884343677
## 84	-12.76331864	1.3190949949	-0.066695809	-0.152530816	0.0600484705
## 85	12.25229346	2.6157819791	0.619420362	1.067137895	-0.4696178081
## 86	2.25120619	1.9222725016	-0.302083530	0.363460908	-0.5027338297
## 87	-5.90051047	-3.0748584290	-0.188254576	-1.080368992	-0.7375113169
## 88	-7.70634851	4.2377083401	-0.029896225	0.758101795	-0.1097756172
## 89	-0.80759207	0.8740180964	-0.132447140	0.676877734	-0.8816081030
## 90	0.04634769	-4.3672997768	0.417545189	0.492733028	-0.0463554392
## 91	12.18337503	0.4449323580	0.658140182	1.115696348	-0.7862922585
## 92	2.22508096	0.8945938243	0.602257484	-1.128914834	-0.7507834554
## 93	7.18250642	-0.3749579488	-0.129372842	0.198897472	-0.2868311639
## 94	10.07889012	-3.6302674423	0.257310096	-0.009895343	-0.4432494456
## 95	-12.91816133	-2.9466355872	0.435881735	0.480836325	-0.1218395829
## 96	-7.79429423	1.1557437719	0.085350032	0.762995497	-0.5776402322
## 97	1.21179234	0.8479918415	-0.572500590	0.459418913	-0.8270603870
## 98	7.21890811	0.7157057507	-0.270179306	-0.415687255	-0.1113603131
## 99	3.25002902	1.9349340034	0.128093788	0.371225762	-0.1411794108
## 100	8.29859286	3.7668838436	0.108325363	0.231761211	0.4408045711
## 101	3.25021270	1.9227261499	0.263624195	0.516490784	0.4631094967
## 102	-9.70694586	3.3683031098	-0.739930126	0.187544438	-0.2689901087
## 103	3.24556927	1.8798256084	-0.730272751	0.071648284	0.1630215809
## 104	3.20241981	-0.1278156183	-1.143443681	-0.096058390	0.5718876046
## 105	8.22286856	0.6754425840	-0.746012422	0.030094620	0.3581299625
## 106	4.34155523	4.9845515573	-0.549826705	0.379970119	0.5457720620
## 107	3.16126749	-1.2631822214	-0.749522729	-0.228212011	0.4711919753
## 108	-0.88618115	-2.2384218991	-0.110170103	0.582543436	-0.6692799813
## 109	10.18548176	-0.4102808313	-0.354147054	-0.490520604	-0.7262899286

## 110	10.24687452	1.7178771449	-0.454507843	-0.452109047	-0.7966782862
## 111	4.04149002	-4.5255715475	-0.214402488	0.290900660	-0.6300356413
## 112	6.12563425	-1.4587480148	0.280886422	0.624488907	0.4553305693
## 113	-1.74537042	2.0487166704	-0.488235325	-0.627705990	-0.0699493904
## 114	2.21803202	0.8999661079	-0.473358947	0.016695285	0.8848728323
## 115	0.11246755	-3.2019398830	-0.153824139	-0.156507981	-0.2965321955
## 116	-8.89299723	-2.0152665099	0.606725876	-0.144536923	-0.3404265311
## 117	6.07177628	-3.5268254069	0.591973838	0.867801899	-0.2185802913
## 118	2.14398437	-1.2670934614	-0.078966603	0.523471733	0.5000938195
## 119	2.04548764	-4.4435572910	0.495291225	0.515591257	-0.1434730393
## 120	-12.89271156	-1.9449941279	0.714849608	0.537984802	0.6880655655
## 121	9.03558925	-4.6557588768	0.412540465	0.565080106	0.5001866628
## 122	12.03799412	-4.7875505194	-0.094783109	0.494827641	-0.6452376307
## 123	9.30100972	3.7691961503	0.121429699	0.480361363	-0.6337380045
## 124	-0.86586895	-2.1741955942	-1.203015043	-0.341284493	0.0301701676
## 125	1.04360756	-4.4505417734	-0.172681716	0.295786625	-0.7228414501
## 126	3.11655092	-2.3190319066	-0.366378495	0.323822529	-0.6856655710
## 127	3.31839137	4.9098386830	0.418007483	0.995721446	-0.5694355914
## 128	-1.83917372	-1.1280391848	-0.404734211	-0.090822155	0.1635750889
## 129	-10.82951169	0.1318527878	0.044140952	0.698249503	-0.8918086333
## 130	-9.79670070	1.1179091217	0.336101086	-0.144400519	-0.9843421299
## 131	11.22438718	1.6017029434	0.429709762	1.072492556	-0.3600765024
## 132	5.25113866	1.8480952417	-0.613263661	0.059087936	0.0486033720
## 133	6.25463104	1.8750963208	-0.357224860	0.284006297	0.6075036333
## 134	5.19257623	-0.2239089562	-0.800904259	0.261752021	0.5766923942
## 135	5.18583844	-0.2691598968	-0.334150951	-0.064703768	1.0934345515
## 136	2.15596279	-1.2042530569	-0.636561399	0.048581915	0.6770704719
## 137	5.17559296	-0.2923590021	0.144002186	0.152540408	0.9732724952
## 138	4.28336633	2.8664355597	-0.799319039	0.201887892	0.3564216084
## 139	7.24911442	1.7883132314	-1.082568066	0.036210969	-0.1409508571
## 140	-10.71638256	3.3602762016	-0.073991003	0.323512426	-0.0376317716
## 141	6.21982448	0.7603408267	-0.594128078	0.314532736	0.8326263805
## 142	0.29066388	3.0791639990	-0.798298237	0.166391353	0.3410919427
## 143	4.25653220	1.9128498092	-0.830549651	0.264164299	0.7540140801
## 144	2.22926654	0.8971359113	-0.985322658	0.143706478	0.5354719009
## 145	7.30888802	3.8704867933	-0.365611141	0.265049354	0.5804861283
## 146	1.07884807	-3.3619484411	-0.276586472	-0.554524950	-0.3154581691
## 147	9.04610549	-4.6650169082	-0.404390112	0.182820961	0.0377137597
## 148	10.01340088	-5.7176894199	0.214291070	0.384161416	-0.3586423549
## 149	-7.86153625	-1.9415312149	-0.300294180	-0.586557898	-0.6611699807
## 150	-5.92783884	-3.1753766665	0.214903380	0.353463295	0.5715654205
## 151	3.28491668	2.9307611562	-0.790985328	0.110660270	0.7527190363
## 152	6.12847911	-2.3793550354	-0.418903671	0.008533599	0.8867435355
## 153	-2.77948090	1.0219800345	0.018848801	0.279848393	-0.4282334533
## 154	-0.81097225	-0.1426779445	-0.760535652	-0.211166847	0.4857243020
## 155	-1.77160906	0.9878997449	-1.222732764	-0.167223722	-0.1517979930
## 156	1.25517550	1.9733792520	-1.045933367	0.041577823	-0.3990300629
## 157	0.22465362	0.9600310166	-0.825548036	0.135754014	-0.5453518804
## 158	0.22316721	0.9324071567	-0.052612566	0.223047918	-0.0769368198
## 159	0.21753002	0.9141458645	-0.532385454	0.289537268	-0.4979474165
## 160	-1.73408416	2.1156549297	-1.490710360	-0.100898489	0.2745632543
## 161	-6.65205456	5.3506958066	-0.282211370	-0.443805962	0.4613604824
## 162	-2.71286304	3.1580081036	-0.026855424	0.388571784	0.1880418780
## 163	-4.68445575	4.2305677309	-0.259690798	0.293897758	-0.0879781543

## 164	5.25304136	1.8979980730	-0.473893613	0.243482235	0.6766613669
## 165	5.16353980	-1.2855553543	-1.056036626	0.003941264	-0.3489837708
## 166	-12.78826386	0.3199865463	-1.640177885	-0.426976932	0.0581047701
## 167	3.22069451	0.8458266874	-0.028544736	-0.262396274	-0.0818397800
## 168	2.22953801	0.8989154846	-1.131151138	-0.011711991	-0.4871368263
## 169	-6.84751432	-1.0498335970	0.118596667	0.045360435	0.0322513837
## 170	-6.90729897	-3.0846037139	0.308711583	0.052853744	0.0600577356
## 171	-25.82616921	-0.3680658855	-0.785431537	-0.228621186	0.3151832515
## 172	6.21303753	0.7807371681	-0.141538943	0.379685907	-0.3005932856
## 173	7.20989148	0.6414471438	0.059165881	0.502917866	-0.0904562496
## 174	-12.70501102	3.4883442870	0.047111723	-0.598561789	-0.3556429539
## 175	-24.74529926	2.7016743092	-0.382380914	0.356756410	0.2059961787
## 176	-13.83616094	-0.7231186053	-0.460885406	-0.186469845	-0.4236905797
## 177	-13.93423007	-3.9254794933	0.297622846	-0.025000618	0.1258913497
## 178	0.15922443	-1.2049396921	-0.037171998	-0.089923747	0.9263081120
## 179	0.19839008	-0.0980509746	-0.438402801	-0.038297645	0.5382406559
## 180	-7.78856039	1.0875019642	-0.306281519	0.382451724	0.0382664737
## 181	-9.78619493	1.1435096953	-0.513979593	0.390096508	-1.1775144840
## 182	11.17721390	-0.4700964716	0.493743987	0.638551141	0.1493629877
## 183	-1.85879151	-1.1814370628	0.581449075	0.011650173	0.3867870238
## 184	-4.78112725	1.0250798252	-0.283163050	0.197747416	0.7306711740
## 185	7.16136286	-0.4862026295	0.116153803	0.693042068	0.1093231254
## 186	1.12680711	-2.2761793144	-0.449970268	-0.152088973	0.3881545280
## 187	-8.76816793	1.2463676382	-0.830126022	-0.722452622	-0.3228732833
## 188	1.20992841	0.8701005212	-0.652052442	0.483950009	-1.0713047011
## 189	-23.91475648	-2.6410864606	0.197821555	0.347057267	-0.4029720973
## 190	3.16569059	-0.2735209947	0.238168984	0.653717107	0.2582331447
## 191	-7.95252285	-4.1336979069	0.262320715	0.370120977	0.5591040650
## 192	-12.81258398	0.3160438175	0.307986445	-0.700637006	0.2488988805
## 193	-13.74106127	2.4049681002	-0.732504890	0.024135811	0.1391742808
## 194	-2.71860793	3.1412317989	-0.617590745	0.403911945	-0.3557056389
## 195	-1.77836806	1.9620689929	0.564646030	0.884565711	0.5525289458
## 196	-23.93683150	-3.6820096418	-0.412895522	0.081973013	-0.5204713672
## 197	1.01558441	-5.4611245393	-0.015887297	0.251016841	0.3901444991
## 198	-8.94034025	-4.1048916098	-0.560715299	-0.051925912	0.1320547603
## 199	-1.89152043	-2.2304700031	0.306475488	0.467636539	0.7787808513
## 200	-1.79983324	0.9325152086	0.985076709	0.753915495	-0.0330472996
## 201	8.04519209	-4.6076620744	0.153639111	0.477897739	-0.3563820737
## 202	4.12832707	-1.4175773859	0.641897420	0.854797594	-0.5682788472
## 203	4.10398010	-2.4232947416	0.321653314	0.721194408	-0.3964991091
## 204	-30.94471098	-3.4826750578	0.692609942	-0.403400861	-0.5087934273
## 205	-9.77532428	2.1487239922	0.477609981	0.910240945	0.2243464633
## 206	-23.96693338	-4.6933878187	-0.236798695	-0.035687762	0.4767877376
## 207	9.02104586	-5.6288509925	0.410374474	-0.796855805	0.4918106078
## 208	4.10495303	-2.4170399304	0.391641881	0.712308811	-0.1393447656
## 209	-20.84694124	-0.5301443977	-0.023848793	0.409079268	0.5286848890
## 210	1.07841482	-3.3987212217	-0.429445007	0.309567720	-0.9029766017
## 211	-7.95631859	-4.1775644906	-0.193014972	0.288882486	-0.7207662561
## 212	-0.81475155	-0.1151269284	-0.751895099	-0.033716171	0.5432373889
## 213	-2.85729092	-1.0851693240	-0.207002002	0.491920120	-0.8246374933
## 214	-4.80422534	0.9615082282	0.478785752	1.019028390	-0.6416045962
## 215	-12.82873292	0.1958058019	0.584190931	0.809622143	0.3833803450
## 216	7.09465214	-3.4641972139	-0.396499277	-0.289704611	-0.5011134937
## 217	-7.75950482	1.2689366323	-0.239999990	-1.225506201	-0.9818364542

## 218	-9.79687794	1.2126029828	0.322922860	-0.070963022	0.0051968576
## 219	11.11282823	-2.5696977380	-0.285990238	0.410189304	-0.0065380620
## 220	-24.73514362	3.6802985692	0.684376423	0.147948845	-0.8521172311
## 221	-12.75903615	2.3657274633	-0.006267969	0.615963529	0.3665388364
## 222	2.30711368	4.0025609046	1.000808455	-0.530341337	-0.2646683485
## 223	7.13285680	-1.4276450301	0.508282822	0.866025549	0.6634745992
## 224	7.06944681	-3.5368935685	-0.277897936	0.357500772	-0.0119180833
## 225	8.03135968	-4.6602415738	0.566224839	0.616537933	-0.5825635900
## 226	1.19607091	0.8177075867	0.560093864	0.985242784	-0.2398754475
## 227	12.05577074	-4.6623624892	0.005153175	-0.710437348	0.4948887927
## 228	1.28540979	3.9379069273	0.647571219	0.966259817	0.4722538078
## 229	8.18810201	-0.3951103614	-0.695432950	-0.135383477	0.1805567829
## 230	-1.96247512	-5.2671368255	-0.493399322	-0.211741328	0.0658647377
## 231	9.25200129	1.7616317708	-0.915559044	0.009529404	0.1097717461
## 232	8.24923260	2.6883112014	0.296818100	1.004487845	-0.1222858625
## 233	7.22936263	1.7076496729	0.278310026	0.742023700	0.2852108070
## 234	8.19651707	0.6444884481	0.103250298	0.529898589	0.5544065302
## 235	5.26756234	2.8548396146	0.627567329	0.418311710	1.0051540101
## 236	5.28716744	2.9256166549	-0.754115957	0.223732273	0.3237632950
## 237	4.16674318	-1.2502769750	-1.481145003	-0.324375939	0.0433875936
## 238	12.27176459	2.6596938943	-0.363646574	0.337905363	-0.0848193573
## 239	8.24817384	1.7877941911	0.687405922	-0.923289150	0.6508412553
## 240	6.28037221	2.8802755104	-0.517092309	0.186109777	0.3389823193
## 241	8.19270182	-0.3282679104	-1.129092833	-0.047560024	0.3145488929
## 242	7.16388208	-1.3437719580	-0.922316487	-0.844794845	-0.1135930734
## 243	5.22863731	0.8066167952	-1.096708599	0.204906974	-0.4447171360
## 244	-4.81257951	-0.0280189508	0.130118622	-0.602516165	0.4905754556
## 245	-0.83052925	-1.0928658530	-1.321013176	-0.231334454	0.3818636435
## 246	0.23275563	0.9977996447	-1.425601727	0.011728927	-0.6592186257
## 247	9.18934098	-0.3724877055	-0.759903242	-0.055041016	0.1945902812
## 248	6.13183431	-1.4382414459	0.153461435	0.488888871	0.5876499385
## 249	3.28788114	2.9615400115	-1.043429359	0.158123184	0.5042201458
## 250	9.09473955	-3.5332211145	-0.928613524	-0.352763965	0.0238036264
## 251	-11.73191966	2.4140794423	-1.406182740	-0.238512149	0.3134751261
## 252	5.22779055	0.8426430103	-1.243524139	0.042273903	0.2932445749
## 253	-5.70902913	3.2278832522	-0.773104339	0.194580197	0.7951505229
## 254	6.27799178	2.8250613227	-0.411445731	0.235867489	0.2464757635
## 255	-6.76111687	2.1440034663	-0.280704962	0.455936052	0.1105568113
## 256	-3.77200105	1.0870289789	-0.230825049	0.015829198	0.6259661984
## 257	5.19129846	-0.2410782542	-0.867531226	-0.100149538	0.1674068177
## 258	4.22223842	0.8620580308	0.702518387	-0.840360317	0.9787768948
## 259	4.19911217	-0.2091299662	-1.284356093	-0.064300333	0.2435162243
## 260	4.19781078	-0.1804078738	-1.584253670	-0.264698686	0.1226978060
## 261	5.25894195	1.8676442406	-1.395437537	-0.056084235	0.2929054796
## 262	2.19661265	-0.1598287653	-0.580698961	0.236822004	-0.2693810111
## 263	3.26241940	1.9621075856	-1.446528081	-0.043557568	0.2572346066
## 264	3.33858617	5.0141376871	0.161734896	-0.144692116	0.2958971705
## 265	6.22408152	0.7601086538	-0.905390001	0.137316988	-0.1456591690
## 266	-0.86236636	-2.1126767183	-0.932958535	-0.182528615	0.6690697113
## 267	4.24296583	1.8295207627	-0.298179441	0.223785613	0.3521872785
## 268	6.25034580	1.8322718515	-0.681614402	0.109334211	0.1221849355
## 269	-4.82670839	-0.0663178072	0.238093499	0.860894110	-0.2255805440
## 270	9.16024089	-1.4154137265	-1.072820656	0.053599208	-0.6157672575
## 271	7.11291009	-2.4842036810	0.921665606	-0.833911118	-0.7281920196

## 272	-3.88466196	-2.0721490719	0.827614384	-0.541170195	-0.1150817048
## 273	-16.96649682	-4.8816415994	-0.238192129	-0.095388254	0.4449011624
## 274	12.24925524	2.6290036113	0.846533392	0.456129042	0.0121665815
## 275	-15.79581757	1.3570655334	0.519028565	0.860206004	-0.0488678180
## 276	3.21200233	0.8478725639	0.581789300	-0.196663237	1.1650243171
## 277	-0.74351228	2.0166846933	0.329959167	-1.261818752	-0.0700321097
## 278	-2.71999764	3.1610068201	1.069751133	-0.774097748	-0.6773488719
## 279	-8.94926229	-4.1240870943	-0.292293657	0.239169779	-0.6390725175
## 280	3.23808601	1.8311192841	0.646260172	0.307366895	0.9925642207
## 281	0.29542985	3.9975559356	0.178371735	0.599780276	-0.6526093332
## 282	-3.91714061	-3.1982389270	0.205324915	0.410956704	0.5996429250
## 283	-2.88114220	-2.1588464587	0.657356857	-0.885648880	-0.1978625581
## 284	-14.97496220	-4.9782057265	0.054687222	0.233992509	-0.2644568653
## 285	-17.76649476	2.4416951752	0.216316536	0.562516728	-0.6664401326
## 286	-2.84128990	-1.1219317609	0.322073164	-1.229424360	-0.8511795661
## 287	-10.67010304	5.3653025672	0.014109145	0.629409738	0.2923406566
## 288	-10.81807533	0.1293931759	-0.428866028	0.489732930	-0.0073925095
## 289	-14.66904111	5.4797077542	0.190721136	0.750003615	-0.4038494623
## 290	-26.91314706	-2.5282748982	-0.069511639	-0.037779084	0.1991545870
## 291	6.07332918	-3.5301059489	0.307403683	0.406095474	-0.5583858557
## 292	-2.87290813	-2.1323713332	0.027060650	-0.012091759	-0.2115240189
## 293	2.15607985	-0.2597976821	0.672930644	0.912772778	0.6177306397
## 294	1.19353615	0.7795296742	-0.267141502	0.650800574	-1.3229818899
## 295	-10.65356016	5.4494631685	0.578040314	-0.401601563	-0.2639833556
## 296	-15.88574110	-1.8652586313	0.268424483	0.393961289	-0.5400757136
## 297	10.05225243	-3.6701866451	1.389223514	0.155423177	-0.5143404130
## 298	-25.91476209	-2.5268521238	0.602267811	-0.262071432	0.4864781863
## 299	2.17205154	-0.2279976443	-0.387056634	0.534744441	-1.0385229697
## 300	10.02601378	-4.7310035705	0.654726074	0.615905446	-0.5961890156
## 301	0.23782059	1.9389406459	-0.149934868	0.654528199	0.1374074147
## 302	-3.98854315	-5.3067883627	0.210771586	0.321747683	-0.3758890639
## 303	-18.84313949	-0.6820792427	-0.087460097	0.273257984	-0.1549556964
## 304	-7.71988683	3.2534828996	0.101632625	-0.258212413	-0.2508461600
## 305	-0.84670021	-1.1564507748	0.211625291	0.152440019	0.9932473752
## 306	-7.80317753	1.1034154900	0.590925167	0.959493786	-0.7064785429
## 307	1.13572540	-2.2095893878	-0.199121202	-1.271897550	-0.9284304235
## 308	9.07877272	-3.6172804376	-0.432549113	0.252137394	-0.9422942585
## 309	4.08211816	-3.4447237618	0.936420448	-0.112021452	-0.2456255301
## 310	-28.85694895	-1.3130486269	0.335586545	0.048128439	0.3830569779
## 311	-6.73957008	3.1289764624	0.440303904	1.009972484	-0.4608171807
## 312	-6.79957437	1.0091500114	0.277230820	0.689234803	0.7441097015
## 313	10.11790805	-2.5563610553	-0.521991477	-0.150299003	0.4521607812
## 314	10.11268956	-2.5826955454	0.050879356	0.144639499	0.7037191907
## 315	7.17186086	-0.3927388025	-0.197221969	0.712200827	-0.7141245162
## 316	9.26001975	1.8253210366	0.549691448	-0.810719637	0.3843798059
## 317	5.23027105	0.8425189193	-0.045209701	0.071829537	-0.0995640786
## 318	10.22263828	0.6057353131	0.051484144	0.033572065	0.8832495043
## 319	8.16837499	-1.3384061458	0.217177683	-0.361017877	0.5903063561
## 320	9.34296022	4.8341224455	0.244570956	0.349952359	0.5588208253
## 321	11.28004178	2.7295007026	0.664316599	0.546848650	-0.1303573190
## 322	6.22438385	0.7932611430	0.570768729	0.379551405	0.3972153949
## 323	7.10980950	-3.4014529796	-0.251796909	-0.246482514	0.6421813033
## 324	11.20257521	0.5489715148	0.652324707	0.625238465	-0.3666693900
## 325	-7.70366991	3.3164738803	0.379096883	-0.831190373	-0.9425390187

## 326	11.19761166	-0.3676917049	0.653225001	-0.421168046	1.0250038949
## 327	11.19761166	-0.3676917049	0.653225001	-0.421168046	1.0250038949
## 328	11.29012482	2.7181035527	0.225649201	-0.487771251	0.7013355471
## 329	11.22577415	0.7024206337	0.738195242	-0.319861385	0.9975569647
## 330	11.25890960	1.7359281929	0.328992993	-0.574802538	0.7567114776
## 331	11.22577415	0.7024206337	0.738195242	-0.319861385	0.9975569647
## 332	10.01524303	-5.7103932241	-0.010154948	0.205054700	0.3473611128
## 333	-25.87856367	-1.5368509396	-0.571688001	-0.047762675	-0.3377438123
## 334	-2.81223392	-0.0182145031	-0.482978511	-0.856814699	-0.9686264379
## 335	-20.81816004	0.5115376840	-0.190481354	0.326400516	0.2261289265
## 336	-10.85393413	-0.8372390859	0.064515767	0.523761109	0.4940275936
## 337	-17.76412252	1.4579273749	-0.054992506	-0.294759432	0.2948421102
## 338	9.24967672	1.7756901511	0.708866467	-0.917966241	-0.1474539641
## 339	7.22658749	0.8072715950	0.227154510	-1.058103346	-0.6577256991
## 340	8.28296370	2.8333046226	0.318774188	-0.972141872	-1.1288331627
## 341	8.15877501	-1.3452858430	0.439282044	-1.139573794	-0.5325236885
## 342	10.16053559	-1.3919161315	0.899802583	-0.942627337	0.6039077819
## 343	8.24454551	1.7567106774	1.111247191	-0.612993085	-0.5856465323
## 344	8.27900926	2.8161685065	0.661828493	-0.838569595	-0.1714554911
## 345	6.18845001	-0.2443067910	0.990488339	-0.906572240	-0.3982743373
## 346	8.31223953	3.8742141441	0.476497463	-0.901464698	-0.2143969185
## 347	8.19830654	-0.2978947150	-0.280437925	-1.529352068	-0.1338271445
## 348	6.31723867	3.9448749777	0.336520171	-1.016691721	0.2237139946
## 349	9.09608967	-3.4788878894	0.316743184	-1.296153685	-0.7780722081
## 350	8.19156529	-0.2587755649	0.829204603	-0.837461100	-0.3863995376
## 351	9.10074913	-3.4609419092	0.103196507	-1.301407777	0.2952102887
## 352	10.22711626	0.7547901523	0.192299821	-1.200469464	0.0332742212
## 353	8.28400299	2.8636451748	0.742247723	-0.944949514	0.5039886033
## 354	3.24910983	1.9214915868	0.390537207	-1.098594988	-0.1838174911
## 355	8.28260982	2.8254104024	0.539524112	-0.930860249	0.2597239629
## 356	10.28384597	2.7395774872	0.202011702	-0.880739671	0.3096187325
## 357	7.22750563	0.7971555714	0.094339501	-0.559406242	0.1817417456
## 358	10.28823120	2.7743036810	-0.052818603	0.352971441	-0.2423179191
## 359	7.22561396	0.7420560017	-0.319913833	0.034679211	-0.0718865951
## 360	9.28020528	2.7350936458	0.317509747	0.332286690	0.6378854374
## 361	6.23187256	0.7844367652	-0.147631599	0.098435326	0.8049069623
## 362	10.27824145	2.7467932606	0.533635306	-0.700566509	-0.4627230525
## 363	9.25912238	1.7386291844	0.039650867	-0.659359108	0.4187155053
## 364	5.28069000	2.8791038179	0.782610803	0.415780566	0.9028312387
## 365	10.22332192	0.6788559560	0.394156738	0.258957528	1.0934055138
## 366	9.22987079	0.7422393243	0.030261490	-1.027573551	-0.1449090520
## 367	6.19548914	-0.2863348212	-0.221711463	0.059904284	0.5098815694
## 368	9.21258910	0.6315684914	0.187414667	-0.282961963	0.1162355178
## 369	9.19974828	-0.3556953002	-0.285644325	0.056064313	0.5777123898
## 370	9.28197415	2.7869457629	0.448364903	-0.997615537	0.4356058003
## 371	9.25171366	1.7433877696	0.766777517	-0.577121347	-0.7055944250
## 372	8.18934613	-0.3603513596	-0.625130562	0.259659539	-0.4618092499
## 373	10.27480211	2.7485056182	0.840137026	-0.679449374	0.1780870358
## 374	9.25890407	1.7570094908	-0.226177153	0.264727692	-0.4556495734
## 375	9.18890506	-0.4089988265	-0.473352993	-0.022619650	-0.1295821643
## 376	4.23666090	1.8227157338	0.520236782	-0.583288966	0.1784380489
## 377	9.28893049	2.8050131498	-0.061655059	0.341503257	-0.2388521896
## 378	7.19522986	-0.2812219983	-0.880138875	-0.224488640	-0.0401649327
## 379	9.29012163	2.8366992135	0.373594621	-0.693058862	-0.6128792989

## 380	9.25219212	1.7209963868	1.016051813	-0.828383092	0.4741613077
## 381	9.27698167	2.7595087678	0.710881399	-0.856466054	-0.8299577489
## 382	6.28755591	2.9214830377	0.350538260	-0.891537638	-0.7457387584
## 383	8.09309598	-3.4774953502	0.898088456	-1.135246996	-0.6064478124
## 384	7.23102482	0.8187257650	-0.386786281	-1.360455421	-0.4603320418
## 385	8.25432023	1.8402532348	0.756265813	-0.819795431	-0.4654641496
## 386	9.24705008	1.7360431873	0.770230524	-0.741195570	-0.8488510730
## 387	7.27797332	2.8384452870	0.864949852	-0.683571165	-0.8780427986
## 388	8.16054812	-1.3609389092	0.407180078	-1.108615575	-0.5974970375
## 389	9.22545845	0.7394314274	0.680132028	-0.909633908	-0.4414829490
## 390	9.28504092	2.8001615362	0.524339306	0.431621627	0.3077535942
## 391	8.25973007	1.7983844497	0.071283117	-1.136374544	-0.0151702502
## 392	8.15768135	-1.4411164449	0.229054403	0.085260682	0.5380661214
## 393	6.22515273	0.7893973652	0.366454622	0.229168999	0.0760679927
## 394	8.25327991	1.7998516244	0.253208417	0.392527456	-0.0848385968
## 395	7.19488540	-0.3272254067	-0.349425709	0.026944030	-0.5915141865
## 396	10.18761434	-0.3628215657	1.424364133	-0.560739819	0.2437787723
## 397	9.21915383	0.6686258753	0.375232275	0.517557903	0.1794004326
## 398	8.25547831	1.7892578969	0.474584580	-0.111041968	-0.1836558912
## 399	3.25824335	1.9418258967	0.496823640	0.255455805	1.3344630044
## 400	10.30698287	3.7929282024	0.630622568	-0.526325564	-0.8617744011
## 401	9.19932433	-0.3018269162	0.024722468	-0.944083112	-0.9911184625
## 402	3.26429094	1.9729523675	0.156053793	-0.838643533	-0.8088823055
## 403	6.21928291	0.7436802042	-0.170544655	0.167409517	-0.9234314988
## 404	1.22926561	0.9495661900	0.274274926	-0.902225400	-1.1351723643
## 405	10.24729584	1.6470114469	0.953780656	0.538281439	0.2028964841
## 406	9.26138988	1.7725363166	-0.431336149	0.104359470	-0.4432353967
## 407	10.19331701	-0.4017933414	-0.139749842	0.005595674	-0.2344033923
## 408	5.10105698	-3.3971857192	-1.039926672	-0.247029107	0.6769944076
## 409	10.19402251	-0.4105630661	-0.235823840	0.280836391	-0.5401326386
## 410	7.28283893	2.8523385779	0.628970775	0.500975913	-0.1164944008
## 411	9.21818367	0.6848703437	0.667452623	0.510031819	-0.2972818163
## 412	8.25424516	1.7812580557	0.488876066	0.316581933	1.0642137882
## 413	5.22531842	0.7700177106	0.562364337	-0.096778455	0.1225829670
## 414	11.21567872	0.5370840436	0.647501262	0.483278114	-0.0087107011
## 415	10.13654289	-2.4853599282	-0.249200114	0.059750427	-0.2972481565
## 416	10.27984965	2.7289958960	0.504886386	0.545684522	-0.1182356613
## 417	-1.76315647	1.0614264439	-0.834188749	-0.288601591	0.0814493150
## 418	10.19735843	-0.3275969668	-0.061071837	0.061061983	0.5934994060
## 419	8.22252680	0.6971571506	-0.266490545	-0.006114831	-0.7426204764
## 420	9.22928316	0.6685703630	-0.572542193	-0.106586186	-0.0943125514
## 421	3.17466818	-1.2123480088	-0.496386335	-0.083421966	-0.3159294771
## 422	2.31284566	3.9978558366	-0.253541013	0.041500485	0.3191665949
## 423	6.22634018	0.7912274970	0.182443233	0.274936091	0.0421215887
## 424	0.28364236	3.0559045375	1.385636019	-0.509655861	-0.1639202601
## 425	6.19177404	-0.2500668765	0.461287328	0.207902327	0.7314445820
## 426	6.23211041	0.8343291364	-0.587034276	-0.739742992	-0.1721900377
## 427	5.09221417	-3.4354804724	-0.744325446	-0.048416362	0.5863522219
## 428	8.22712167	0.7779743176	-0.028096702	-1.209316567	-0.2040589601
## 429	9.28047885	2.7298060601	0.374937634	-0.838537413	-0.7654807375
## 430	9.16487873	-1.3796293246	-0.034140585	-1.458773988	0.1585691219
## 431	-2.94232001	-4.2318513480	0.644748162	-0.864066307	-0.4143208466
## 432	-31.96678618	-4.4513007090	-0.215333520	-0.261726651	0.4205948590
## 433	10.24944819	1.6846372302	0.594531164	-0.916939887	-0.1509400200

## 434	-5.91829430	-3.1470532855	0.606795927	0.513570469	0.1222941965
## 435	-4.76433091	2.0453608561	0.041168242	0.652624134	-1.0106076215
## 436	6.27783525	2.8079816996	0.870670029	0.598919031	0.2022021752
## 437	10.15894259	-0.4896019464	0.935052809	1.096878967	-0.4098322081
## 438	-6.83117131	-0.8807541493	0.370610552	-1.186488196	-0.5869468913
## 439	8.22429381	0.7922495759	0.591743720	-0.896570996	-0.6822615335
## 440	6.25756638	2.7786422275	0.371509393	0.889997553	0.6267048983
## 441	12.14441114	-1.5817549316	0.177575402	-0.419184383	-0.0319887633
## 442	7.25782559	2.7374875666	0.285021480	0.860038024	0.2005394306
## 443	-3.86378817	-1.1477750094	0.794929516	-0.082943241	0.2691448864
## 444	6.12660262	-2.3732302030	-0.033903634	0.372528940	0.1167663227
## 445	-5.89318554	-2.1377292043	0.710863380	0.666987371	0.0022883072
## 446	8.22795222	1.6732758335	-0.342031746	0.673148995	-0.2593565727
## 447	9.11073236	-2.5623915190	-0.465695890	0.343409904	-0.9170088522
## 448	0.27282953	3.0197107070	-0.012936490	0.002435040	-0.0006415193
## 449	-29.93839068	-3.5034136501	0.030426675	0.029106319	0.3258023767
## 450	11.16696382	-0.4706133552	0.439399927	0.914849105	-0.2886383588
## 451	10.25639409	1.7544928157	0.335236037	0.401777280	0.0448881487
## 452	5.25545161	1.8421721867	0.311772941	0.292481438	1.0832669049
## 453	-6.88563537	-2.0614548981	0.564812694	0.593374795	0.1510453324
## 454	10.20895825	0.5827919348	1.148195816	-0.750395269	-0.5292226955
## 455	12.24650677	1.6456618225	0.249719785	0.298904923	-0.4831638518
## 456	-22.75417989	2.6352862987	-0.576380940	0.352131427	-0.1095012863
## 457	11.22038424	0.6097754147	0.552719573	0.341970479	0.6500840757
## 458	-0.68675033	4.0885503529	-0.723857097	0.062063409	0.2931081331
## 459	11.08310569	-3.6186779204	0.471867982	-0.010076472	1.2084348809
## 460	2.15789482	-1.2142780356	0.231139856	0.192854988	0.9482241334
## 461	-22.70287714	4.6468312982	0.432785506	0.856753281	-0.4655015679
## 462	-15.67434636	4.5672950647	-0.593021016	0.167115338	0.0206607179
## 463	4.14706232	-1.3255660856	1.564173607	-0.752631916	0.1484762601
## 464	0.22347220	1.8600330231	0.101820809	0.806602162	-0.9663939382
## 465	0.07721260	-3.3333633456	0.002641452	0.479170255	-0.7047250836
## 466	11.21929499	1.5367158488	0.045759700	0.721041955	-0.4369465389
## 467	11.10294288	-2.6153945317	0.272703641	-0.306215879	0.2428269657
## 468	12.16006656	-0.5590667317	0.755565519	0.190520483	-0.0731613236
## 469	2.03046912	-5.4290458496	-0.318683536	-0.015442561	-0.0137023426
## 470	7.30588835	3.8486741619	-0.317653350	0.409012187	-0.0706526950
## 471	6.24996712	1.7987240138	-0.801291074	0.022197056	0.7710612475
## 472	4.12164082	-2.3188018857	-0.065554451	0.110786083	0.6664629649
## 473	6.21013023	0.7043385609	0.297636270	0.533036776	-0.1910302798
## 474	0.26203146	2.0387091663	-1.267878452	0.082406101	0.2552176185
## 475	2.22065471	0.8465872027	-0.625576003	0.184786297	-0.6159751370
## 476	2.25696443	1.9619722807	-0.840578856	0.257312139	-0.2702549001
## 477	-13.65028876	5.5496805738	0.172949375	-0.350406951	-0.3553555075
## 478	3.28822479	2.9861517304	-0.864889176	0.360052833	-0.2484352233
## 479	-0.76716696	0.9908736081	-1.149727334	0.136097870	-0.4239227588
## 480	6.29849046	3.8461944171	-0.328807389	0.713697502	0.4009484161
## 481	0.23093658	0.9603344222	-1.148824050	-0.034648360	-0.4802053672
## 482	-7.73407633	3.2272866694	0.048093651	-0.108590481	-0.0179281515
## 483	1.25600318	2.8873691919	-0.074673765	0.755175243	-1.0128010952
## 484	4.15344323	-1.2527736774	-0.009524808	0.273425352	0.6874057229
## 485	4.19692135	-0.1701258251	-0.467393834	-0.400346617	0.3349771030
## 486	8.25012007	1.7998428432	0.760207772	-1.100783250	0.5897149161
## 487	-13.95152076	-3.9762005714	0.159864995	0.197771269	0.2037354969

## 488	-0.90013613	-2.3189189603	0.630861917	0.706184163	-0.5762356058
## 489	11.20705120	0.5805954970	0.218441241	0.176591263	0.4988978356
## 490	11.16427367	-0.4791148078	0.791194125	1.057961860	-0.0288153302
## 491	-0.86959208	-2.1237004299	0.127403879	-0.587725391	0.6393065666
## 492	-1.67714511	5.0707408868	0.376556223	0.910060966	-0.5201490748
## 493	-3.79822379	0.0164896504	-1.184741175	-0.377209321	-0.0801956060
## 494	-3.96186225	-5.2310832433	-0.322787796	-0.453504728	0.6062547917
## 495	3.13059639	-1.3094579526	0.343948162	0.741143306	0.0569302580
## 496	-31.75531814	2.8386675454	0.404723536	0.786162985	-0.3312325148
## 497	-16.73400850	2.5079347618	-0.245500473	-0.514962153	0.3027283307
## 498	-3.90221843	-3.1679384166	-0.377738397	-0.203296775	0.8662146352
## 499	-8.89509862	-2.9678141626	-0.176138340	-0.103101019	-0.1849771656
## 500	-14.73900943	2.5177324697	0.151783457	-0.761427055	0.5035900140
## 501	-18.82001420	0.3870608881	1.292803228	-0.562808336	0.2687685301
## 502	-12.90098207	-2.8889717974	0.012690444	-0.235786735	-0.1707794348
## 503	-7.78322477	1.1354100511	-0.275021738	0.248556561	0.5065569505
## 504	6.12727455	-1.4563289708	0.249269676	0.933687097	-0.6253441690
## 505	5.06935818	-3.4922362392	0.045374043	-0.262975356	-0.0802627842
## 506	-11.83675482	-0.7748369021	-0.270366917	-1.277613284	-0.1507991521
## 507	-11.77652769	1.3002614294	-0.885574857	0.013025402	0.0884406308
## 508	2.20459444	0.8097670553	0.420484794	0.659492085	0.9721448582
## 509	-16.98580941	-4.9303331955	0.186339888	0.210905813	-0.4090625889
## 510	-10.74190771	3.2406411469	0.659797791	0.894763800	-0.4197018251
## 511	7.07148391	-3.5750524573	0.429068929	0.683438826	-0.1670295120
## 512	-12.95222005	-4.0069100402	0.168701451	0.209239453	0.2002697674
## 513	11.20858025	0.6100578457	0.228861105	0.600187133	-0.1378227538
## 514	-14.76914751	2.3351711552	0.542998312	0.966296120	-0.4567651242
## 515	-0.95279259	-4.3532493714	0.145250829	0.485819596	-0.2876916726
## 516	-12.94280666	-3.9767426261	0.158943588	0.216470538	0.6055490846
## 517	-5.80780781	1.0445309631	0.870642637	0.177506394	-0.8351432317
## 518	-10.86917564	-1.9314833119	-0.450068213	-0.363443779	0.1827429374
## 519	-20.74068594	2.6364109076	0.714756222	-1.017407658	-0.2707926392
## 520	-8.74805616	2.2111538803	0.265617601	0.219052953	0.6701946873
## 521	3.07098833	-3.4393211727	0.579097390	0.669525593	-0.1786373559
## 522	2.11208055	-2.3216131746	0.454341052	0.771050403	-0.1790426840
## 523	-17.89683563	-1.8095783733	0.641067829	0.515914884	-0.2686786002
## 524	8.13100174	-1.4751154996	0.853118424	-0.386690155	-0.0053600650
## 525	-7.92436036	-3.0635855682	0.347290956	0.471427638	0.5316571347
## 526	10.21589433	0.6690750485	-0.489414124	-0.251183247	-1.0795359113
## 527	-2.76518810	1.0572363002	-0.954484828	-0.136450898	0.3734675207
## 528	3.25642419	1.8990583867	0.195792903	-0.889785964	-0.5926989591
## 529	-16.97958967	-4.9269252589	0.127145041	0.114596294	-0.3799462170
## 530	0.27975075	3.0437095968	0.117453671	0.149534293	0.8335383913
## 531	-0.72121114	3.0064430080	-0.030145472	0.246710877	-0.5639875079
## 532	-2.77276522	1.0992517223	0.059318473	-0.585041879	-0.3719905085
## 533	-5.81136294	0.9780230244	1.126771984	1.074109720	-0.0982270495
## 534	7.03739476	-4.6118575207	0.223126188	0.346312481	0.5621346306
## 535	10.21510527	0.5992869899	0.393542140	-0.850154175	-0.9501805838
## 536	5.24927071	1.8319786279	0.709806746	-0.850907186	0.2258489485
## 537	-22.70285803	3.7314147255	0.838865889	-0.928774161	-0.1703662776
## 538	-22.79699178	0.5731525048	0.513492806	-1.419122586	0.3833302821
## 539	-2.79867385	0.9455323129	0.188552399	0.830969526	-0.3281857670
## 540	5.12757794	-1.4457769032	1.257983077	0.239032684	0.5327779657
## 541	5.04140051	-4.5302558421	0.757759295	-0.091716767	0.5308843006

## 542	-19.68391633	4.7048183987	0.870549714	-0.459962964	0.1016112407
## 543	-0.93393800	-4.2944727529	-0.216393365	-0.150685851	0.2564838448
## 544	-0.93982383	-4.3180063660	-0.108092423	-0.117541718	0.1824896107
## 545	-5.95530747	-4.2255585599	-0.194955967	0.250005476	-0.6561636726
## 546	-5.89707758	-2.1560388726	0.107328090	0.539442397	-0.9136697235
## 547	-7.81042595	1.0494332871	0.530773639	1.008042366	-0.7760506238
## 548	-13.82637453	0.2543217465	0.441105120	0.691037309	0.7514103214
## 549	-22.85122211	-0.5110117633	0.114200308	0.442970519	0.1470392261
## 550	-14.98152545	-4.9739763858	-0.078773337	0.090944423	0.3007529556
## 551	-16.73998425	3.4630820785	0.581030357	0.908405114	-0.5796590297
## 552	-12.76291347	2.2453470075	-0.080365642	0.631080266	-1.0409620973
## 553	9.30172469	3.7624609760	-0.024241232	0.478208967	0.7657088579
## 554	11.12110175	-2.5381190344	-0.064814856	-0.102983343	0.5619101651
## 555	-8.94360401	-4.0717223309	0.568190352	-0.401858369	0.5812689702
## 556	5.21172713	0.7313386698	-0.083278815	0.307529930	-0.4355461996
## 557	-2.73625238	2.1864900802	0.447106984	-1.112412069	0.2827119124
## 558	0.21097076	0.8818161718	0.377112663	0.408517503	0.4802045331
## 559	7.04353638	-4.5900117090	0.231129204	0.642126295	-0.4264292279
## 560	10.11538485	-1.6197651541	1.204386840	1.050195500	-0.2181324053
## 561	-9.96046868	-4.1488036423	0.509555837	0.463181138	-0.5317932602
## 562	12.08587749	-3.6763681359	-0.697642442	-0.233253578	-0.0458496271
## 563	10.14371219	-1.4738933849	0.840453472	-0.589480605	-0.3805723202
## 564	11.19951229	0.5839799409	-0.228347206	-0.344518990	-0.2159198674
## 565	10.21129465	0.6069400028	0.988654416	-0.956187104	0.4870060314
## 566	1.27888963	3.0101413266	0.308303497	0.386462447	0.1269059836
## 567	0.21247057	0.9179701767	0.029730005	0.254818431	0.6519542616
## 568	-18.77616129	1.5209153796	-0.488162641	0.213701118	0.2120663784
## 569	2.03571776	-4.4731883487	0.672609990	0.540793312	-0.2115395043
## 570	-4.77614039	2.0280764670	0.631362871	1.080977961	-0.4914224196
## 571	-1.79941829	0.9309993020	0.372791241	0.765526758	0.0118964888
## 572	-17.72395236	2.6189393188	-0.238016589	-1.410016236	-0.1693055962
## 573	-17.72715622	2.6088973401	0.111836534	-1.270345566	0.0904332151
## 574	-14.98152545	-4.9739763858	-0.078773337	0.090944423	0.3007529556
## 575	4.20541620	0.7338909186	-0.474851401	0.604958980	-0.7999587404
## 576	4.20541620	0.7338909186	-0.474851401	0.604958980	-0.7999587404
## 577	9.07400743	-3.5791649317	-0.379932538	0.205931319	-0.0429999677
## 578	-13.94165534	-3.9158654987	-0.250122552	-0.003728297	0.5264260441
## 579	-6.92935472	-3.1407190729	0.540410438	0.677572807	-0.2073573044
## 580	-0.75625916	2.0186694887	-0.109475989	0.528724670	-0.0870438321
## 581	-14.72604513	3.4102876497	0.375539587	0.338637328	0.6978845912
## 582	-10.78389422	1.2635418422	0.505490243	-0.439243296	-0.6489134936
## 583	-10.84563005	-0.8293165168	0.475506708	-0.694870093	-0.1338353145
## 584	-10.88521733	-1.9101300818	0.751279967	-0.593730467	-0.1691218962
## 585	-0.87115459	-2.1697698350	0.308929424	-0.222325925	0.5930949864
## 586	-17.82461667	0.3468190695	-0.017714239	0.617972214	-0.8675485265
## 587	8.02999654	-5.5988778989	-0.173469755	-0.327064512	0.5549068033
## 588	8.05753715	-4.5664010657	0.196211335	-0.089920724	0.7592900105
## 589	-1.92805136	-4.2144836109	-0.022302228	-1.330951673	-0.5748858059
## 590	8.23968131	1.7588155605	0.297944912	0.635980855	0.1497790309
## 591	0.17750440	-0.1471859109	0.447609924	0.509432126	0.6716478994
## 592	7.14950792	-1.4184878212	0.534477628	0.012511847	1.0410206813
## 593	-21.97422074	-4.7455852356	-0.160242435	-0.051146244	0.3965471049
## 594	6.31169187	3.9235844296	0.386022702	-0.746906966	-0.1463391202
## 595	-0.77496768	0.9412213206	-1.023480995	-0.052599295	0.2000768529

## 596	7.25648579	1.8594825147	-0.105940649	-0.201997437	0.4773657660
## 597	7.22047096	0.7952618437	-0.645076441	0.188557411	0.5224181559
## 598	5.20283192	-0.2174273497	-1.678347503	-0.198703427	0.0609526939
## 599	3.25680438	1.9305992453	-0.724353148	0.290486953	-0.5961556668
## 600	-3.83805028	-0.9914186644	-0.285698149	-0.528454814	-0.1389773688
## 601	6.25397923	1.8386536807	-1.032377575	0.072157036	0.5369469379
## 602	-12.73331512	2.4264780909	-0.768811587	0.235671783	0.1028784452
## 603	3.27984324	2.9408439454	-0.307184187	0.552765914	-0.1243529656
## 604	0.28549427	3.0696099613	-0.718506365	0.302716462	-0.2337834583
## 605	-5.73870167	2.1877738134	-1.158376357	0.076523007	-0.8102039866
## 606	4.22600937	0.8228921782	-0.602818063	0.186151532	-0.3806624885
## 607	4.25803714	1.9160415739	-1.240465800	-0.053935576	0.1885378215
## 608	1.31362359	4.0531868607	-0.613794041	0.354860139	0.0112019852
## 609	-3.70195885	4.1256332611	-0.051014228	0.679345454	-0.0625642946
## 610	4.22848984	0.8733524791	-1.252360595	0.030805719	0.2967103045
## 611	4.19433119	-0.2451958553	-0.848955484	0.036122093	0.7987779362
## 612	5.23285834	0.8305763093	-1.513825410	-0.121927861	0.2777500778
## 613	2.18405474	-0.1618555738	0.397901056	0.583432793	-0.1384601842
## 614	7.31011583	3.8699150730	-0.416198940	0.380271827	0.1450520978
## 615	8.18824056	-0.3008046017	-0.106785198	0.459528816	-0.2833368193
## 616	2.15958523	-1.2026509828	-0.277250914	0.309751259	-0.2791719202
## 617	6.25511202	1.7980353700	-0.879686727	0.030353194	-0.0284184496
## 618	7.22369122	0.7105441599	-0.907722747	0.165584363	0.5607455853
## 619	6.27516392	2.8393365809	0.208394691	0.548613060	-0.2317268098
## 620	-0.77049952	1.0113729975	-1.091383878	0.133833021	0.3016247755
## 621	-3.76473764	1.1021099151	-1.007359148	-0.135023149	0.8555474274
## 622	5.12988741	-2.3582783152	-0.556057512	0.017919702	-0.1386962828
## 623	7.22489615	0.7520545077	-1.111302504	0.044543302	-0.4349798420
## 624	7.12949177	-2.4093644321	-1.284491334	-0.291637509	0.1869435514
## 625	0.25890224	2.0227276517	-0.750862515	0.256082401	-0.5857584782
## 626	7.16696960	-1.3383041164	-1.211255893	0.049809451	-0.3601698063
## 627	8.24978773	1.7806688749	-0.724375505	0.286468180	0.7334571955
## 628	6.26032154	1.8699791791	-1.420018713	-0.009153016	0.2468374180
## 629	6.20155744	-0.2490226703	-0.910047355	-0.511030861	-0.9101612701
## 630	6.16651449	-1.3203718384	-1.439593184	-0.176602365	-0.5668397599
## 631	-2.83029771	-1.0169609858	-0.813905562	-0.123818583	0.5703923537
## 632	2.28170381	2.9501334600	-0.904476975	0.021268206	0.0662918745
## 633	1.28354042	3.0398448713	-0.082345130	-0.260087165	0.1912233431
## 634	4.16501209	-1.2451306471	-0.275628311	0.050568507	-0.0478363923
## 635	7.12728384	-2.4319708736	-0.794360956	-0.352476461	0.2497726679
## 636	-6.80123291	1.0706416249	0.268192297	0.604878891	0.3080458419
## 637	2.34070134	5.0529488682	0.760574418	-0.585000559	-0.5831295232
## 638	8.01419952	-5.6551961333	0.189516907	0.358305671	-0.3497096111
## 639	11.17814926	-0.4662977900	0.164672101	0.365109676	0.6055618547
## 640	-19.85498685	-1.5799770231	-0.885995115	-1.524246151	-0.0986150532
## 641	11.21622345	0.6599120988	-0.137166661	0.374578478	0.9594016609
## 642	0.12433363	-2.2585200565	-0.459049893	-0.124900233	0.5454613352
## 643	-1.71073544	3.1087181614	0.235941942	-0.850618543	-0.2935498288
## 644	-7.68447090	4.3504994455	0.319764497	-0.388894269	-0.4798893310
## 645	12.15083657	-1.4975044333	0.208419597	-0.539246468	0.4753878566
## 646	12.11765895	-2.5337501563	0.031716035	-1.106040015	0.0062574847
## 647	-8.77659483	1.2272747184	0.913832401	0.275415744	0.1345040471
## 648	11.16350519	-0.4756285716	0.304473367	-0.121262666	-0.0140050452
## 649	-1.77315165	0.9693515456	0.499209703	0.369654756	-0.0062585492

## 650	-3.74922107	2.0943551519	1.029230619	0.343007559	1.2274246090
## 651	-2.71877909	3.1427456248	0.614887545	0.198650993	-0.2317877200
## 652	-0.74298122	2.0607758123	-0.066405500	-1.342166564	-0.6110799101
## 653	-3.69111242	4.1588919857	0.598331245	-0.564994601	-0.7683465840
## 654	-0.98631212	-5.4066736452	0.189542997	0.282287440	-0.4156870669
## 655	-0.93373815	-4.2735958362	-0.590297495	-0.125041217	0.7320332894
## 656	-8.83270124	0.0285787248	-0.170175031	0.599013837	-1.2453831671
## 657	7.19189740	-0.3369312632	-1.322470438	-0.197997610	-0.0320321905
## 658	-6.80805020	0.0809996062	-0.033836068	-0.595738803	0.2014466916
## 659	-13.74072442	2.4108187433	0.449289250	-1.036893625	0.3280887868
## 660	-14.89638707	-2.7982569365	0.799680874	-1.229803967	0.4335172170
## 661	9.07359478	-3.5956245055	0.403515873	0.514328166	-0.1853504412
## 662	-10.93776554	-3.9999375552	0.573760234	-0.514107245	-0.1442806596
## 663	4.16536064	-0.3691619237	0.177931253	0.487473146	0.0428421363
## 664	1.21166364	0.8785332095	-0.864010257	0.317483395	-0.3612516640
## 665	12.23243785	1.5579483599	-0.577026533	0.445577295	-0.1269581167
## 666	-4.95587289	-4.2711503707	0.251338073	0.315810922	0.2391591382
## 667	-26.66267668	4.9463971541	-0.040976426	-1.205186539	0.4109469031
## 668	-20.73204872	2.6754624622	-0.049634016	-0.808305208	0.0878233959
## 669	-8.78562176	1.1636553812	-0.881234994	0.313937068	-0.2890955333
## 670	-17.97112911	-4.8776446317	-0.183779960	0.033121343	0.4559933604
## 671	-0.93257811	-4.2660489997	-0.042791618	-0.615303449	0.4744380920
## 672	8.11759600	-2.4696341961	0.187773453	0.345940039	0.7163846523
## 673	8.08193114	-3.5281639415	-0.072901120	0.438963392	0.2990159814
## 674	-1.89807091	-3.1795676248	-0.523592691	-0.402190953	0.5816673114
## 675	2.14195801	-1.2750797440	0.137014533	0.530881396	-0.5544375683
## 676	5.14914085	-0.3905390569	1.208515416	1.079889045	-0.0932260937
## 677	-5.80240051	1.0949950783	0.277272818	-0.205270263	-0.3799101705
## 678	11.24559556	1.6623265033	-0.291866066	-0.564300819	-0.4422624931
## 679	-13.90274161	-2.8698248891	0.246617356	0.071372282	0.1469429810
## 680	-14.97446005	-4.9615937520	-0.119352865	-0.064270885	0.3791813957
## 681	-10.98957189	-5.0778172279	0.392217159	-0.584377752	0.1576614664
## 682	-19.92521379	-3.7183447000	-0.403724646	-0.352062431	-0.3364322542
## 683	5.24384157	1.8496809863	-0.012035493	0.367612714	0.5773288712
## 684	-0.81140861	0.8743032512	0.502902891	0.793716278	-0.3176834107
## 685	-23.76572426	1.6822673869	-0.214788886	-0.657186266	0.4199130847
## 686	-8.88732044	-2.0401967297	-0.133499372	0.311754016	0.2973044467
## 687	1.17922287	-0.2135516456	-0.877840676	0.327312248	-0.2963058985
## 688	1.04881468	-4.4030789017	-0.201218327	0.188121737	0.3472030717
## 689	3.08858666	-3.4210581293	-0.298762394	-0.294258323	0.0849422175
## 690	-9.87586562	-1.9786388548	-0.791273890	-0.029981579	-0.9322769831
## 691	-1.68809407	4.0809202842	-0.405029544	0.352752111	-0.1227336341
## 692	5.21480397	0.7754053936	-0.561112124	0.111657606	0.1073200268
## 693	1.08269760	-3.3392765701	-0.219178375	0.343955473	0.2614767590
## 694	-1.79988312	0.9332521866	-0.064354844	0.845893866	-0.8426992498
## 695	2.10432098	-2.3500089839	0.382351746	0.723166203	0.5239271037
## 696	1.19073648	-0.1022520809	-0.066525195	-0.714872030	0.3143469817
## 697	-1.94265387	-4.2809977070	0.182543669	-0.085684956	0.6826944046
## 698	-16.83368867	-0.6580108939	0.079813008	0.233598946	0.0201492975
## 699	2.03208585	-5.4205836594	-0.029470223	-0.145527251	-0.1676940601
## 700	4.11037011	-2.4105022866	0.094614293	0.359772523	-0.3522685461
## 701	-4.74382670	2.1842253537	-0.373231841	-0.733766110	-0.0127446290
## 702	5.13462065	-2.3195197547	0.072518445	-1.018732737	-0.7360769270
## 703	-5.83767666	-1.0217852402	-0.703228027	-0.302763130	-0.1372187973


```

## 704    3.08163468 -3.4275420388 -0.276827194  0.336555662 -0.5931911789
##      Class.ASD
## 1         0
## 2         0
## 3         1
## 4         0
## 5         0
## 6         1
## 7         0
## 8         0
## 9         0
## 10        1
## 11        1
## 12        0
## 13        0
## 14        0
## 15        0
## 16        0
## 17        0
## 18        0
## 19        0
## 20        0
## 21        0
## 22        0
## 23        0
## 24        0
## 25        0
## 26        0
## 27        0
## 28        0
## 29        0
## 30        0
## 31        0
## 32        1
## 33        0
## 34        1
## 35        1
## 36        0
## 37        0
## 38        0
## 39        1
## 40        1
## 41        1
## 42        0
## 43        0
## 44        0
## 45        1
## 46        1
## 47        0
## 48        0
## 49        0
## 50        0
## 51        0
## 52        1

```

## 54	1
## 55	1
## 56	1
## 57	1
## 58	1
## 59	0
## 60	0
## 61	1
## 62	1
## 63	0
## 64	0
## 65	1
## 66	0
## 67	0
## 68	0
## 69	0
## 70	0
## 71	0
## 72	0
## 73	0
## 74	0
## 75	0
## 76	1
## 77	0
## 78	1
## 79	0
## 80	0
## 81	0
## 82	0
## 83	1
## 84	0
## 85	0
## 86	0
## 87	1
## 88	0
## 89	0
## 90	1
## 91	0
## 92	0
## 93	0
## 94	1
## 95	1
## 96	0
## 97	0
## 98	0
## 99	0
## 100	0
## 101	0
## 102	0
## 103	0
## 104	0
## 105	0
## 106	0
## 107	0

## 108	1
## 109	0
## 110	0
## 111	1
## 112	0
## 113	0
## 114	0
## 115	1
## 116	1
## 117	1
## 118	0
## 119	1
## 120	1
## 121	1
## 122	1
## 123	0
## 124	1
## 125	1
## 126	1
## 127	0
## 128	0
## 129	0
## 130	0
## 131	0
## 132	0
## 133	0
## 134	0
## 135	0
## 136	0
## 137	0
## 138	0
## 139	0
## 140	0
## 141	0
## 142	0
## 143	0
## 144	0
## 145	0
## 146	1
## 147	1
## 148	1
## 149	1
## 150	1
## 151	0
## 152	1
## 153	0
## 154	0
## 155	0
## 156	0
## 157	0
## 158	0
## 159	0
## 160	0
## 161	0

## 162	0
## 163	0
## 164	0
## 165	0
## 166	0
## 167	0
## 168	0
## 169	0
## 170	1
## 171	0
## 172	0
## 173	0
## 174	0
## 175	0
## 176	0
## 177	1
## 178	0
## 179	0
## 180	0
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## 193	0
## 194	0
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## 197	1
## 198	1
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## 206	1
## 207	1
## 208	1
## 209	0
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## 211	1
## 212	0
## 213	0
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## 216	1
## 217	0
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## 219	1
## 220	0
## 221	0
## 222	0
## 223	0
## 224	1
## 225	1
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## 232	0
## 233	0
## 234	0
## 235	0
## 236	0
## 237	0
## 238	0
## 239	0
## 240	0
## 241	0
## 242	0
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## 244	0
## 245	0
## 246	0
## 247	0
## 248	0
## 249	0
## 250	1
## 251	0
## 252	0
## 253	0
## 254	0
## 255	0
## 256	0
## 257	0
## 258	0
## 259	0
## 260	0
## 261	0
## 262	0
## 263	0
## 264	0
## 265	0
## 266	1
## 267	0
## 268	0
## 269	0

## 270	0
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## 273	1
## 274	0
## 275	0
## 276	0
## 277	0
## 278	0
## 279	1
## 280	0
## 281	0
## 282	1
## 283	1
## 284	1
## 285	0
## 286	0
## 287	0
## 288	0
## 289	0
## 290	1
## 291	1
## 292	1
## 293	0
## 294	0
## 295	0
## 296	1
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## 301	0
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## 307	1
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## 311	0
## 312	0
## 313	1
## 314	1
## 315	0
## 316	0
## 317	0
## 318	0
## 319	0
## 320	0
## 321	0
## 322	0
## 323	1

## 324	0
## 325	0
## 326	0
## 327	0
## 328	0
## 329	0
## 330	0
## 331	0
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## 333	1
## 334	0
## 335	0
## 336	0
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## 375	0
## 376	0
## 377	0

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## 380	0
## 381	0
## 382	0
## 383	1
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## 385	0
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## 405	0
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## 418	0
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## 421	0
## 422	0
## 423	0
## 424	0
## 425	0
## 426	0
## 427	1
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## 431	1

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## 441	0
## 442	0
## 443	0
## 444	1
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## 485	0

## 486	0
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## 489	0
## 490	0
## 491	1
## 492	0
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## 494	1
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## 573	0
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## 579	1
## 580	0
## 581	0
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## 583	0
## 584	1
## 585	1
## 586	0
## 587	1
## 588	1
## 589	1
## 590	0
## 591	0
## 592	0
## 593	1

## 594	0
## 595	0
## 596	0
## 597	0
## 598	0
## 599	0
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## 601	0
## 602	0
## 603	0
## 604	0
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## 619	0
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## 621	0
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## 624	1
## 625	0
## 626	0
## 627	0
## 628	0
## 629	0
## 630	0
## 631	0
## 632	0
## 633	0
## 634	0
## 635	1
## 636	0
## 637	0
## 638	1
## 639	0
## 640	1
## 641	0
## 642	1
## 643	0
## 644	0
## 645	0
## 646	1
## 647	0

## 648	0
## 649	0
## 650	0
## 651	0
## 652	0
## 653	0
## 654	1
## 655	1
## 656	0
## 657	0
## 658	0
## 659	0
## 660	1
## 661	1
## 662	1
## 663	0
## 664	0
## 665	0
## 666	1
## 667	0
## 668	0
## 669	0
## 670	1
## 671	1
## 672	1
## 673	1
## 674	1
## 675	0
## 676	0
## 677	0
## 678	0
## 679	1
## 680	1
## 681	1
## 682	1
## 683	0
## 684	0
## 685	0
## 686	1
## 687	0
## 688	1
## 689	1
## 690	1
## 691	0
## 692	0
## 693	1
## 694	0
## 695	1
## 696	0
## 697	1
## 698	0
## 699	1
## 700	1
## 701	0

```
## 702      1
## 703      0
## 704      1
```

```
# splitting the data into training and testing set
# Without replacement, random sampling is used to split the rows. Because training is the more difficult
set.seed(10)
rows_testset <- sample(rownames(data), 0.20 * nrow(data), replace = FALSE)
test_set <- data[rows_testset,]
train_set <- data[!row.names(data) %in% rows_testset,]
```

All the implemented ML algorithms will be evaluated using confusion matrix, AUC, precision, recall and F1-score

SVM

Implementing SVM

```
# SVM is compatible with the features in the dataset
SVM <- svm(formula = Class.ASD ~ .,
            data = train_set,
            type = "C-classification",
            kernel = "radial")

summary(SVM)
```

```
##
## Call:
## svm(formula = Class.ASD ~ ., data = train_set, type = "C-classification",
##      kernel = "radial")
##
##
## Parameters:
##   SVM-Type:  C-classification
##   SVM-Kernel: radial
##      cost:   1
##
## Number of Support Vectors: 115
##
## ( 61 54 )
##
##
## Number of Classes: 2
##
## Levels:
## 0 1
```

```
# using our SVM to make predictions on the validation set
svm_prediction <- predict(SVM , test_set)
svm_prediction
```

```
## 492 650 331 369 461 440 585 439 424 512 345 272 144 456 702 537 526 352 393 623
##    0    0    0    0    0    0    1    0    0    1    0    1    0    0    1    0    0    0    0    0
## 232 668 343 339 286 605   50 667 102   33 648 677 671 325   94 115 601 308 289 268
##    0    0    0    0    0    0    0    0    0    0    0    0    1    0    1    1    0    1    0    0
## 336 418 679 348   42 335   13 663 362 374   26 210   48 528 689 483 318 133 271   35
##    0    0    1    0    0    0    0    0    0    0    0    1    0    0    1    0    0    0    1    1
## 267   75 571 693 544 676 436 438 614 622   39 631   90 531 555 395 255 193 462 603
##    0    0    0    1    1    0    0    0    0    1    1    0    1    0    1    0    0    0    0    0
## 659 378 627    4   64 533 576 225 177   95 183 228 509   27   81 433 478 208 370 299
##    0    0    0    0    0    0    0    1    1    1    0    0    1    0    0    0    0    1    0    0
## 458   73 351 538 385 572 303   51 372 700   40 310 161 581 281 118 563 152 146 300
##    0    0    1    0    0    0    0    0    0    1    1    1    0    0    0    0    0    1    1    1
## 130   69 479 350 473 110 103 680 306 413 285 562 476 589 284   61 427 690 625 455
##    0    0    0    0    0    0    0    1    0    0    0    1    0    1    1    1    1    1    0    0
## Levels: 0 1
```

```
# creating SVM confusion matrix
SVM_confusion_matrix = table(svm_prediction, test_set$Class.ASD)
SVM_confusion_matrix
```

```
##
## svm_prediction    0    1
##                0 102    0
##                1   0   38
```

All 102 healthy people and all 38 ASD patients can be accurately classified using SVM.

```
# Calculating SVM misclassification rate
SVM_missclass_rate <- mean(svm_prediction != test_set$Class.ASD) * 100
SVM_missclass_rate
```

```
## [1] 0
```

SVM has a misclassification rate of 0%

```
# Calculating SVM accuracy
SVM_accuracy <- sum(diag(SVM_confusion_matrix)) / sum(SVM_confusion_matrix) * 100
SVM_accuracy
```

```
## [1] 100
```

the accuracy of SVM is 100%

```
# finding true positive, true negative, false positive and false negative from SVM confusion matrix
true_pos_svm <- SVM_confusion_matrix[2,2]
true_pos_svm
```

```
## [1] 38
```

```
true_neg_svm <- SVM_confusion_matrix[1,1]
true_neg_svm
```

```
## [1] 102
```

```
false_pos_svm <- SVM_confusion_matrix[2,1]
false_pos_svm
```

```
## [1] 0
```

```
false_neg_svm <- SVM_confusion_matrix[1,2]
false_neg_svm
```

```
## [1] 0
```

```
# Calculating SVM precision
SVM_prec <- true_pos_svm/(true_pos_svm + false_pos_svm)
SVM_prec
```

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

the precision of SVM is 1

```
# Calculating SVM recall
SVM_rec <- true_pos_svm/(true_pos_svm + false_neg_svm)
SVM_rec
```

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

the recall of SVM is 1

```
# Calculating F1 score for SVM
SVM_F1 <- 2 * ((SVM_prec * SVM_rec)/(SVM_prec + SVM_rec))
SVM_F1
```

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


the F1 score 1

The algorithm is already performing well, so there is no point in repeatedly dividing the dataset and training/testing the model on different portions of it. We can use k-fold cross validation for SVM, but we shouldn't use it.

Decision trees

2.) Implementing Decision Tree

```
# Decision Tree is compatible with the features in the dataset
decision_tree <- rpart(Class.ASD ~., data = train_set, method = 'class')
summary(decision_tree)
```

```
## Call:
## rpart(formula = Class.ASD ~ ., data = train_set, method = "class")
##   n= 563
##
##           CP nsplit rel error      xerror      xstd
## 1 0.986755      0 1.00000000 1.00000000 0.069615498
## 2 0.010000      1 0.01324503 0.01324503 0.009349003
##
## Variable importance
## PC2 PC1
## 98  2
##
## Node number 1: 563 observations,      complexity param=0.986755
##   predicted class=0   expected loss=0.268206   P(node) =1
##   class counts:    412    151
##   probabilities: 0.732 0.268
##   left son=2 (410 obs) right son=3 (153 obs)
##   Primary splits:
##     PC2 < -1.524075 to the right, improve=217.054100, (0 missing)
##     PC1 < -0.8545333 to the right, improve= 8.850475, (0 missing)
##     PC3 < -0.5720943 to the left, improve= 7.738034, (0 missing)
##     PC4 < 0.7781198 to the right, improve= 4.446326, (0 missing)
##     PC5 < 0.7869657 to the right, improve= 3.325045, (0 missing)
##   Surrogate splits:
##     PC1 < -25.85237 to the right, agree=0.734, adj=0.02, (0 split)
##
## Node number 2: 410 observations
##   predicted class=0   expected loss=0   P(node) =0.7282416
##   class counts:    410      0
##   probabilities: 1.000 0.000
##
## Node number 3: 153 observations
##   predicted class=1   expected loss=0.0130719   P(node) =0.2717584
##   class counts:      2    151
##   probabilities: 0.013 0.987
```

```
# using our decision tree to make predictions on the validation set
pred_decision_tree <- predict(decision_tree, test_set, type="class")
pred_decision_tree
```

```
## 492 650 331 369 461 440 585 439 424 512 345 272 144 456 702 537 526 352 393 623
## 0 0 0 0 0 0 1 0 0 1 0 1 0 0 1 0 0 0 0
## 232 668 343 339 286 605 50 667 102 33 648 677 671 325 94 115 601 308 289 268
## 0 0 0 0 0 0 0 0 0 0 0 0 1 0 1 1 0 1 0
## 336 418 679 348 42 335 13 663 362 374 26 210 48 528 689 483 318 133 271 35
## 0 0 1 0 0 0 1 0 0 0 0 1 0 0 1 0 0 0 1 1
## 267 75 571 693 544 676 436 438 614 622 39 631 90 531 555 395 255 193 462 603
## 0 0 0 1 1 0 0 0 0 1 1 0 1 0 1 0 0 0 0 0
## 659 378 627 4 64 533 576 225 177 95 183 228 509 27 81 433 478 208 370 299
## 0 0 0 0 0 0 0 1 1 1 0 0 1 0 0 0 0 1 0 0
## 458 73 351 538 385 572 303 51 372 700 40 310 161 581 281 118 563 152 146 300
## 0 0 1 0 0 0 0 0 0 1 1 0 0 0 0 0 0 1 1 1
## 130 69 479 350 473 110 103 680 306 413 285 562 476 589 284 61 427 690 625 455
## 0 0 0 0 0 0 0 1 0 0 0 1 0 1 1 1 1 1 0 0
## Levels: 0 1
```

```
# creating decision tree confusion matrix
dec_tree_confusion_matrix = table(pred_decision_tree, test_set$Class.ASD)
dec_tree_confusion_matrix
```

```
##
## pred_decision_tree 0 1
## 0 101 1
## 1 1 37
```

37 ASD patients and 101 healthy individuals can be classified correctly by Decision Tree, but it misclassifies 1 healthy individual as an ASD patient (false positive) and 1 ASD patient as a healthy individual (false negative)

```
# Calculating decision tree misclassification rate
dec_tree_miss_class_rate <- mean(pred_decision_tree != test_set$Class.ASD) * 100
dec_tree_miss_class_rate
```

```
## [1] 1.428571
```

Decision tree has a misclassification rate of 1.428571%

```
# Calculating decision tree accuracy
dec_tree_accuracy <- sum(diag(dec_tree_confusion_matrix)) / sum(dec_tree_confusion_matrix) * 100
dec_tree_accuracy
```

```
## [1] 98.57143
```

the accuracy of decision tree is 98.57143%

```
# finding true positive, true negative, false positive and false negative from decision tree confusion matrix
true_pos_dec_tree <- dec_tree_confusion_matrix[2,2]
true_pos_dec_tree
```

```
## [1] 37
```

```
true_neg_dec_tree <- dec_tree_confusion_matrix[1,1]
true_neg_dec_tree
```

```
## [1] 101
```

```
false_pos_dec_tree <- dec_tree_confusion_matrix[2,1]
false_pos_dec_tree
```

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

```
false_neg_dec_tree <- dec_tree_confusion_matrix[1,2]
false_neg_dec_tree
```

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

```
# Calculating decision tree precision
dec_tree_prec <- true_pos_dec_tree/(true_pos_dec_tree + false_pos_dec_tree)
dec_tree_prec
```

```
## [1] 0.9736842
```

the precision of decision tree is 0.9736842

```
# Calculating dec_tree recall
dec_tree_rec <- true_pos_dec_tree/(true_pos_dec_tree + false_neg_dec_tree)
dec_tree_rec
```

```
## [1] 0.9736842
```

the recall of dec_tree is 0.9736842

```
# Calculating F1 score for dec_tree
dec_tree_F1 <- 2 * ((dec_tree_prec * dec_tree_rec)/(dec_tree_prec + dec_tree_rec))
dec_tree_F1
```

```
## [1] 0.9736842
```

the F1 score for decision tree is 0.9736842

```
# utilizing k fold cross validation for decision tree seeding to ensure repeatability of results
set.seed(10)

# In this case, we are using 10 fold cross validation, the function trainControl generates parameters t
train_control <- trainControl(method = "cv", number = 10, savePredictions=TRUE)
train_control
```

```
## $method
## [1] "cv"
##
## $number
## [1] 10
##
## $repeats
## [1] NA
##
## $search
## [1] "grid"
##
## $p
## [1] 0.75
##
## $initialWindow
## NULL
##
## $horizon
## [1] 1
##
## $fixedWindow
## [1] TRUE
##
## $skip
## [1] 0
##
## $verboseIter
## [1] FALSE
##
## $returnData
## [1] TRUE
##
## $returnResamp
## [1] "final"
##
## $savePredictions
## [1] TRUE
##
## $classProbs
## [1] FALSE
##
## $summaryFunction
```

```

## function (data, lev = NULL, model = NULL)
## {
##   if (is.character(data$obs))
##     data$obs <- factor(data$obs, levels = lev)
##   postResample(data[, "pred"], data[, "obs"])
## }
## <bytecode: 0x00000281d9185020>
## <environment: namespace:caret>
##
## $selectionFunction
## [1] "best"
##
## $preProcOptions
## $preProcOptions$thresh
## [1] 0.95
##
## $preProcOptions$ICAcomp
## [1] 3
##
## $preProcOptions$k
## [1] 5
##
## $preProcOptions$freqCut
## [1] 19
##
## $preProcOptions$uniqueCut
## [1] 10
##
## $preProcOptions$cutoff
## [1] 0.9
##
##
## $sampling
## NULL
##
## $index
## NULL
##
## $indexOut
## NULL
##
## $indexFinal
## NULL
##
## $timingSamps
## [1] 0
##
## $predictionBounds
## [1] FALSE FALSE
##
## $seeds
## [1] NA
##
## $adaptive

```

```
## $adaptive$min
## [1] 5
##
## $adaptive$alpha
## [1] 0.05
##
## $adaptive$method
## [1] "gls"
##
## $adaptive$complete
## [1] TRUE
##
##
## $trim
## [1] FALSE
##
## $allowParallel
## [1] TRUE
```

```
# Decision tree model construction with 10-fold cross validation. We pass all data inside the train fun
model <- train(factor(Class.ASD) ~., data = data,
               trControl = train_control,
               method = "rpart")

model
```

```
## CART
##
## 703 samples
## 5 predictor
## 2 classes: '0', '1'
##
## No pre-processing
## Resampling: Cross-Validated (10 fold)
## Summary of sample sizes: 633, 633, 632, 632, 633, 633, ...
## Resampling results across tuning parameters:
##
##   cp          Accuracy   Kappa
## 0.000000  0.9914487  0.9780722
## 0.489418  0.9914487  0.9780722
## 0.978836  0.8036419  0.2780722
##
## Accuracy was used to select the optimal model using the largest value.
## The final value used for the model was cp = 0.489418.
```

we are getting an accuracy of 0.9914475 at $cp = 0.489418$ using k-fold cross validation

Logistic Regression

3.) Implementing Logistic Regression

```
# Logistic Regression is compatible with the features in the dataset
log_regression_model <- glm(Class.ASD ~.,
                             data = train_set,
                             family = "binomial")
```

```
## Warning: glm.fit: algorithm did not converge
```

```
## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
```

```
summary(log_regression_model)
```

```
##
## Call:
## glm(formula = Class.ASD ~ ., family = "binomial", data = train_set)
##
## Deviance Residuals:
##      Min       1Q   Median       3Q      Max
## -5.138e-05 -2.100e-08 -2.100e-08  2.100e-08  6.283e-05
##
## Coefficients:
##              Estimate Std. Error z value Pr(>|z|)
## (Intercept)   -74.329   13368.736  -0.006    0.996
## PC1             -1.272     603.456  -0.002    0.998
## PC2            -43.353    7629.752  -0.006    0.995
## PC3             -2.106    6985.649   0.000    1.000
## PC4            -2.228    8204.870   0.000    1.000
## PC5              0.320     8733.300   0.000    1.000
##
## (Dispersion parameter for binomial family taken to be 1)
##
##      Null deviance: 6.5473e+02  on 562  degrees of freedom
## Residual deviance: 5.2698e-08  on 557  degrees of freedom
## AIC: 12
##
## Number of Fisher Scoring iterations: 25
```

```
# using Logistic Regression model to make predictions on the validation set
pred_logistic_reg <- predict(log_regression_model, test_set, type="response")
pred_logistic_reg <- ifelse(pred_logistic_reg > 0.5, 1, 0)
pred_logistic_reg
```

```
## 492 650 331 369 461 440 585 439 424 512 345 272 144 456 702 537 526 352 393 623
```

```
##      0      0      0      0      0      0      1      0      0      1      0      1      0      0      1      0      0      0      0      0
## 232 668 343 339 286 605   50 667 102  33 648 677 671 325   94 115 601 308 289 268
##      0      0      0      0      0      0      0      0      0      0      0      0      1      0      1      1      0      1      0      0
## 336 418 679 348   42 335   13 663 362 374   26 210   48 528 689 483 318 133 271   35
##      0      0      1      0      0      0      0      0      0      0      0      1      0      0      1      0      0      0      1      1
## 267   75 571 693 544 676 436 438 614 622   39 631   90 531 555 395 255 193 462 603
##      0      0      0      1      1      0      0      0      0      1      1      0      1      0      1      0      0      0      0      0
## 659 378 627    4   64 533 576 225 177   95 183 228 509   27   81 433 478 208 370 299
##      0      0      0      0      0      0      0      1      1      1      0      0      1      0      0      0      0      1      0      0
## 458   73 351 538 385 572 303   51 372 700   40 310 161 581 281 118 563 152 146 300
##      0      0      1      0      0      0      0      0      0      1      1      1      0      0      0      0      0      1      1      1
## 130   69 479 350 473 110 103 680 306 413 285 562 476 589 284   61 427 690 625 455
##      0      0      0      0      0      0      0      1      0      0      0      1      0      1      1      1      1      1      0      0
```

```
# creating logistic regression confusion matrix
log_reg_confusion_matrix = table(pred_logistic_reg, test_set$Class.ASD)
log_reg_confusion_matrix
```

```
##
## pred_logistic_reg    0    1
##                   0 102    0
##                   1   0  38
```

Logistic Regression is able to correctly classify all ASD patients and all normal people

```
# Calculating logistic regression misclassification rate
log_reg_miss_class_rate <- mean(pred_logistic_reg != test_set$Class.ASD) * 100
log_reg_miss_class_rate
```

```
## [1] 0
```

Logistic Regression has a misclassification rate of 0%

```
# Calculating logistic regression accuracy
log_reg_acc <- sum(diag(log_reg_confusion_matrix)) / sum(log_reg_confusion_matrix) * 100
log_reg_acc
```

```
## [1] 100
```

the accuracy of logistic regression is 100%

```
# finding true positive, true negative, false positive and false negative from logistic regression conf
true_pos_log_reg <- log_reg_confusion_matrix[2,2]
true_pos_log_reg
```



```
## [1] 38
```

```
true_neg_log_reg <- log_reg_confusion_matrix[1,1]  
true_neg_log_reg
```

```
## [1] 102
```

```
false_pos_log_reg <- log_reg_confusion_matrix[2,1]  
false_pos_log_reg
```

```
## [1] 0
```

```
false_neg_log_reg <- log_reg_confusion_matrix[1,2]  
false_neg_log_reg
```

```
## [1] 0
```

```
# Calculating log_reg precision  
log_reg_prec <- true_pos_log_reg/(true_pos_log_reg + false_pos_log_reg)  
log_reg_prec
```

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

the precision of Logistic Regression is 1

```
# Calculating log_reg recall  
log_reg_rec <- true_pos_log_reg/(true_pos_log_reg + false_neg_log_reg)  
log_reg_rec
```

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

the recall of log_reg is 1

```
# Calculating F1 score for log_reg  
log_reg_F1 <- 2 * ((log_reg_prec * log_reg_rec)/(log_reg_prec + log_reg_rec))  
log_reg_F1
```

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

the F1 score for logistic regression is 1

Since the algorithm is already effective, there is no point in repeatedly dividing the dataset and training/testing the model on different portions of it. We can use k-fold cross validation for logistic regression, but we shouldn't use.

Artificial Neural Networks

4.) Implementing Artificial Neural Network

```
# fitting the neural network
set.seed(10)
ANN <- neuralnet(Class.ASD ~ .,
                  data = train_set,
                  hidden = c(4))
```

number of neurons in the hidden layer taken as 1 less than the number of features

```
# making predictions using ANN
ANN_result <- compute(ANN, rep = 1, test_set[, -6])
ANN_predictions <- ANN_result$net.result
ANN_predictions <- ifelse(ANN_predictions > 0.5, 1, 0)
ANN_predictions
```

```
##      [,1]
## 492     0
## 650     0
## 331     0
## 369     0
## 461     0
## 440     0
## 585     1
## 439     0
## 424     0
## 512     1
## 345     0
## 272     1
## 144     0
## 456     0
## 702     1
## 537     0
## 526     0
## 352     0
## 393     0
```

## 623	0
## 232	0
## 668	0
## 343	0
## 339	0
## 286	0
## 605	0
## 50	0
## 667	0
## 102	0
## 33	0
## 648	0
## 677	0
## 671	1
## 325	0
## 94	1
## 115	1
## 601	0
## 308	1
## 289	0
## 268	0
## 336	0
## 418	0
## 679	1
## 348	0
## 42	0
## 335	0
## 13	0
## 663	0
## 362	0
## 374	0
## 26	0
## 210	1
## 48	0
## 528	0
## 689	1
## 483	0
## 318	0
## 133	0
## 271	1
## 35	1
## 267	0
## 75	0
## 571	0
## 693	1
## 544	1
## 676	0
## 436	0
## 438	0
## 614	0
## 622	1
## 39	1
## 631	0
## 90	1

## 531	0
## 555	1
## 395	0
## 255	0
## 193	0
## 462	0
## 603	0
## 659	0
## 378	0
## 627	0
## 4	0
## 64	0
## 533	0
## 576	0
## 225	1
## 177	1
## 95	1
## 183	0
## 228	0
## 509	1
## 27	0
## 81	0
## 433	0
## 478	0
## 208	1
## 370	0
## 299	0
## 458	0
## 73	0
## 351	1
## 538	0
## 385	0
## 572	0
## 303	0
## 51	0
## 372	0
## 700	1
## 40	1
## 310	1
## 161	0
## 581	0
## 281	0
## 118	0
## 563	0
## 152	1
## 146	1
## 300	1
## 130	0
## 69	0
## 479	0
## 350	0
## 473	0
## 110	0
## 103	0

```
## 680    1
## 306    0
## 413    0
## 285    0
## 562    1
## 476    0
## 589    1
## 284    1
## 61     1
## 427    1
## 690    1
## 625    0
## 455    0
```

```
# creating ANN confusion matrix
ANN_confusion_matrix <- table(ANN_predictions, test_set$Class.ASD)
ANN_confusion_matrix
```

```
##
## ANN_predictions    0    1
##              0 102    0
##              1   0   38
```

ANN is able to correctly classify all ASD patients and all normal people

```
# calculating ANN misclassification rate
ANN_misclass_rate <- mean(ANN_predictions != test_set$Class.ASD) * 100
ANN_misclass_rate
```

```
## [1] 0
```

ANN misclassification rate is 0%

```
# calculating ANN accuracy
ANN_acc <- sum(diag(ANN_confusion_matrix)) / sum(ANN_confusion_matrix) * 100
ANN_acc
```

```
## [1] 100
```

the accuracy from neural network is 100%

```
# calculating true positive, true negative, false positive and false negative from the ANN confusion matrix
true_pos_ANN <- ANN_confusion_matrix[2,2]
true_pos_ANN
```

```
## [1] 38
```

```
true_neg_ANN <- ANN_confusion_matrix[1,1]  
true_neg_ANN
```

```
## [1] 102
```

```
false_pos_ANN <- ANN_confusion_matrix[2,1]  
false_pos_ANN
```

```
## [1] 0
```

```
false_neg_ANN <- ANN_confusion_matrix[1,2]  
false_neg_ANN
```

```
## [1] 0
```

```
# calculating ANN precision  
ANN_prec <- true_pos_ANN/(true_pos_ANN + false_pos_ANN)  
ANN_prec
```

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

ANN precision is 1

```
# calculating ANN recall  
ANN_recall <- true_pos_ANN/(true_pos_ANN + false_neg_ANN)  
ANN_recall
```

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

ANN recall is 1

```
# Calculating F1 score for log_reg  
ANN_F1 <- 2 * ((ANN_prec * ANN_recall)/(ANN_prec + ANN_recall))  
ANN_F1
```

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

the F1 score for ANN is 1

For logistic regression, we can use k-fold cross validation, but we shouldn't because the algorithm is already effective and there is no point in repeatedly dividing the dataset and training/testing the model on different portions of it.

The SVM model, Logistic regression model, and ANN model achieved a accuracy of 100% whereas the Decision tree acheived an accuracy of 98% while it acheived 0.9914475 at $cp = 0.489418$ using k-fold cross validation.

Applying two ensemble techniques bagging and boosting

```
# Applying two Bagging algorithms
# 1.) Treebag
control <- trainControl(method="repeatedcv", number=10, repeats=3)
seed <- 7
metric <- "Accuracy"
metric
```

```
## [1] "Accuracy"
```

```
# Bagged CART
set.seed(seed)
fit.treebag <- train(factor(Class.ASD)~., data=data, method="treebag", metric=metric, trControl=control)
fit.treebag
```

```
## Bagged CART
##
## 703 samples
## 5 predictor
## 2 classes: '0', '1'
##
## No pre-processing
## Resampling: Cross-Validated (10 fold, repeated 3 times)
## Summary of sample sizes: 632, 632, 632, 633, 632, 633, ...
## Resampling results:
##
## Accuracy Kappa
## 0.9905229 0.9759094
```

```
# Random Forest
set.seed(seed)
fit.rf <- train(factor(Class.ASD)~., data=data, method="rf", metric=metric, trControl=control)
fit.rf
```

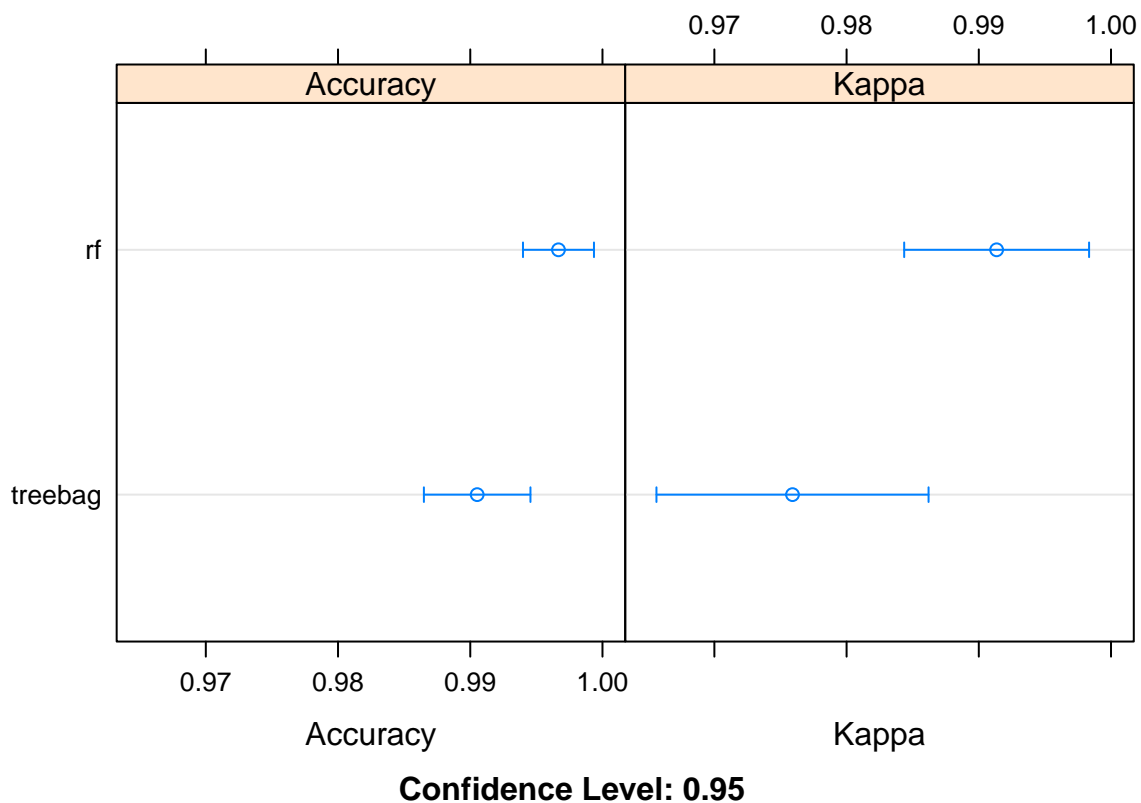
```
## Random Forest
```

```
##
## 703 samples
## 5 predictor
## 2 classes: '0', '1'
##
## No pre-processing
## Resampling: Cross-Validated (10 fold, repeated 3 times)
## Summary of sample sizes: 632, 632, 632, 633, 632, 633, ...
## Resampling results across tuning parameters:
##
## mtry Accuracy Kappa
## 2 0.9966732 0.9913496
## 3 0.9947818 0.9866647
## 5 0.9924145 0.9807606
##
## Accuracy was used to select the optimal model using the largest value.
## The final value used for the model was mtry = 2.
```

```
# summarize results for both bagging algorithms
bagging_results <- resamples(list(treebag=fit.treebag, rf=fit.rf))
summary(bagging_results)
```

```
##
## Call:
## summary.resamples(object = bagging_results)
##
## Models: treebag, rf
## Number of resamples: 30
##
## Accuracy
##      Min.   1st Qu.   Median     Mean 3rd Qu.  Max. NA's
## treebag 0.9571429 0.9857143 0.9859155 0.9905229      1      1      0
## rf      0.9714286 1.0000000 1.0000000 0.9966732      1      1      0
##
## Kappa
##      Min.   1st Qu.   Median     Mean 3rd Qu.  Max. NA's
## treebag 0.8898216 0.9637107 0.964659 0.9759094      1      1      0
## rf      0.9252935 1.0000000 1.000000 0.9913496      1      1      0
```

```
dotplot(bagging_results)
```

treebag is giving a mean accuracy of 0.9856107 whereas random forest is giving a mean accuracy of 0.9926671

```
# Applying two boosting algorithms:
# C5.0
set.seed(seed)
fit.c50 <- train(factor(Class.ASD)~., data=data, method="C5.0", metric=metric, trControl=control)
```

```
## Warning: 'trials' should be <= 6 for this object. Predictions generated using 6
## trials
```

```
## Warning: 'trials' should be <= 6 for this object. Predictions generated using 6
## trials
```

```
## Warning: 'trials' should be <= 9 for this object. Predictions generated using 9
## trials
```

```
## Warning: 'trials' should be <= 9 for this object. Predictions generated using 9
## trials
```

```
## Warning: 'trials' should be <= 7 for this object. Predictions generated using 7
## trials
```

```
## Warning: 'trials' should be <= 3 for this object. Predictions generated using 3
## trials

## Warning: 'trials' should be <= 7 for this object. Predictions generated using 7
## trials

## Warning: 'trials' should be <= 3 for this object. Predictions generated using 3
## trials

## Warning: 'trials' should be <= 6 for this object. Predictions generated using 6
## trials

## Warning: 'trials' should be <= 6 for this object. Predictions generated using 6
## trials

## Warning: 'trials' should be <= 1 for this object. Predictions generated using 1
## trials

## Warning: 'trials' should be <= 3 for this object. Predictions generated using 3
## trials

## Warning: 'trials' should be <= 1 for this object. Predictions generated using 1
## trials

## Warning: 'trials' should be <= 3 for this object. Predictions generated using 3
## trials

## Warning: 'trials' should be <= 8 for this object. Predictions generated using 8
## trials

## Warning: 'trials' should be <= 3 for this object. Predictions generated using 3
## trials

## Warning: 'trials' should be <= 8 for this object. Predictions generated using 8
## trials

## Warning: 'trials' should be <= 3 for this object. Predictions generated using 3
## trials

## Warning: 'trials' should be <= 8 for this object. Predictions generated using 8
## trials

## Warning: 'trials' should be <= 3 for this object. Predictions generated using 3
## trials

## Warning: 'trials' should be <= 8 for this object. Predictions generated using 8
## trials

## Warning: 'trials' should be <= 3 for this object. Predictions generated using 3
## trials
```

Warning: 'trials' should be ≤ 8 for this object. Predictions generated using 8
trials

Warning: 'trials' should be ≤ 7 for this object. Predictions generated using 7
trials

Warning: 'trials' should be ≤ 8 for this object. Predictions generated using 8
trials

Warning: 'trials' should be ≤ 7 for this object. Predictions generated using 7
trials

Warning: 'trials' should be ≤ 8 for this object. Predictions generated using 8
trials

Warning: 'trials' should be ≤ 7 for this object. Predictions generated using 7
trials

Warning: 'trials' should be ≤ 7 for this object. Predictions generated using 7
trials

Warning: 'trials' should be ≤ 3 for this object. Predictions generated using 3
trials

Warning: 'trials' should be ≤ 8 for this object. Predictions generated using 8
trials

Warning: 'trials' should be ≤ 3 for this object. Predictions generated using 3
trials

Warning: 'trials' should be ≤ 8 for this object. Predictions generated using 8
trials

Warning: 'trials' should be ≤ 8 for this object. Predictions generated using 8
trials

Warning: 'trials' should be ≤ 1 for this object. Predictions generated using 1
trials

Warning: 'trials' should be ≤ 1 for this object. Predictions generated using 1
trials

Warning: 'trials' should be ≤ 1 for this object. Predictions generated using 1
trials

Warning: 'trials' should be ≤ 1 for this object. Predictions generated using 1
trials

Warning: 'trials' should be ≤ 8 for this object. Predictions generated using 8
trials

```
## Warning: 'trials' should be <= 7 for this object. Predictions generated using 7
## trials

## Warning: 'trials' should be <= 8 for this object. Predictions generated using 8
## trials

## Warning: 'trials' should be <= 7 for this object. Predictions generated using 7
## trials

## Warning: 'trials' should be <= 6 for this object. Predictions generated using 6
## trials

## Warning: 'trials' should be <= 6 for this object. Predictions generated using 6
## trials

## Warning: 'trials' should be <= 6 for this object. Predictions generated using 6
## trials

## Warning: 'trials' should be <= 6 for this object. Predictions generated using 6
## trials

## Warning: 'trials' should be <= 8 for this object. Predictions generated using 8
## trials

## Warning: 'trials' should be <= 3 for this object. Predictions generated using 3
## trials

## Warning: 'trials' should be <= 8 for this object. Predictions generated using 8
## trials

## Warning: 'trials' should be <= 3 for this object. Predictions generated using 3
## trials

## Warning: 'trials' should be <= 6 for this object. Predictions generated using 6
## trials

## Warning: 'trials' should be <= 6 for this object. Predictions generated using 6
## trials

## Warning: 'trials' should be <= 1 for this object. Predictions generated using 1
## trials

## Warning: 'trials' should be <= 1 for this object. Predictions generated using 1
## trials

## Warning: 'trials' should be <= 1 for this object. Predictions generated using 1
## trials

## Warning: 'trials' should be <= 1 for this object. Predictions generated using 1
## trials
```

```
## Warning: 'trials' should be <= 8 for this object. Predictions generated using 8
## trials

## Warning: 'trials' should be <= 7 for this object. Predictions generated using 7
## trials

## Warning: 'trials' should be <= 8 for this object. Predictions generated using 8
## trials

## Warning: 'trials' should be <= 7 for this object. Predictions generated using 7
## trials

## Warning: 'trials' should be <= 8 for this object. Predictions generated using 8
## trials

## Warning: 'trials' should be <= 7 for this object. Predictions generated using 7
## trials

## Warning: 'trials' should be <= 8 for this object. Predictions generated using 8
## trials

## Warning: 'trials' should be <= 7 for this object. Predictions generated using 7
## trials

## Warning: 'trials' should be <= 8 for this object. Predictions generated using 8
## trials

## Warning: 'trials' should be <= 7 for this object. Predictions generated using 7
## trials

## Warning: 'trials' should be <= 8 for this object. Predictions generated using 8
## trials

## Warning: 'trials' should be <= 3 for this object. Predictions generated using 3
## trials

## Warning: 'trials' should be <= 8 for this object. Predictions generated using 8
## trials

## Warning: 'trials' should be <= 3 for this object. Predictions generated using 3
## trials

## Warning: 'trials' should be <= 3 for this object. Predictions generated using 3
## trials

## Warning: 'trials' should be <= 3 for this object. Predictions generated using 3
## trials
```

```
## Warning: 'trials' should be <= 8 for this object. Predictions generated using 8
## trials

## Warning: 'trials' should be <= 8 for this object. Predictions generated using 8
## trials

## Warning: 'trials' should be <= 6 for this object. Predictions generated using 6
## trials

## Warning: 'trials' should be <= 6 for this object. Predictions generated using 6
## trials

## Warning: 'trials' should be <= 8 for this object. Predictions generated using 8
## trials

## Warning: 'trials' should be <= 7 for this object. Predictions generated using 7
## trials

## Warning: 'trials' should be <= 8 for this object. Predictions generated using 8
## trials

## Warning: 'trials' should be <= 7 for this object. Predictions generated using 7
## trials

## Warning: 'trials' should be <= 4 for this object. Predictions generated using 4
## trials

## Warning: 'trials' should be <= 4 for this object. Predictions generated using 4
## trials

## Warning: 'trials' should be <= 7 for this object. Predictions generated using 7
## trials

## Warning: 'trials' should be <= 8 for this object. Predictions generated using 8
## trials

## Warning: 'trials' should be <= 7 for this object. Predictions generated using 7
## trials

## Warning: 'trials' should be <= 1 for this object. Predictions generated using 1
## trials

## Warning: 'trials' should be <= 3 for this object. Predictions generated using 3
## trials

## Warning: 'trials' should be <= 1 for this object. Predictions generated using 1
## trials

## Warning: 'trials' should be <= 3 for this object. Predictions generated using 3
## trials
```

```
## Warning: 'trials' should be <= 6 for this object. Predictions generated using 6
## trials
```

```
## Warning: 'trials' should be <= 6 for this object. Predictions generated using 6
## trials
```

```
## Warning: 'trials' should be <= 6 for this object. Predictions generated using 6
## trials
```

```
## Warning: 'trials' should be <= 6 for this object. Predictions generated using 6
## trials
```

```
fit.c50
```

```
## C5.0
##
## 703 samples
## 5 predictor
## 2 classes: '0', '1'
##
## No pre-processing
## Resampling: Cross-Validated (10 fold, repeated 3 times)
## Summary of sample sizes: 632, 632, 632, 633, 632, 633, ...
## Resampling results across tuning parameters:
```

```
##
##  model  winnow  trials  Accuracy  Kappa
##  rules  FALSE   1      0.9952515  0.9878082
##  rules  FALSE  10      0.9957277  0.9890325
##  rules  FALSE  20      0.9957277  0.9890325
##  rules  TRUE   1      0.9933602  0.9830833
##  rules  TRUE  10      0.9938296  0.9841818
##  rules  TRUE  20      0.9928771  0.9818931
##  tree   FALSE   1      0.9952515  0.9878082
##  tree   FALSE  10      0.9952515  0.9878082
##  tree   FALSE  20      0.9952515  0.9878082
##  tree   TRUE   1      0.9933602  0.9830833
##  tree   TRUE  10      0.9942989  0.9854792
##  tree   TRUE  20      0.9928771  0.9818931
##
```

```
## Accuracy was used to select the optimal model using the largest value.
## The final values used for the model were trials = 10, model = rules and
## winnow = FALSE.
```

```
# Stochastic Gradient Boosting
```

```
set.seed(seed)
fit.gbm <- train(factor(Class.ASD)~., data=data, method="gbm", metric=metric, trControl=control, verbose=0)
fit.gbm
```

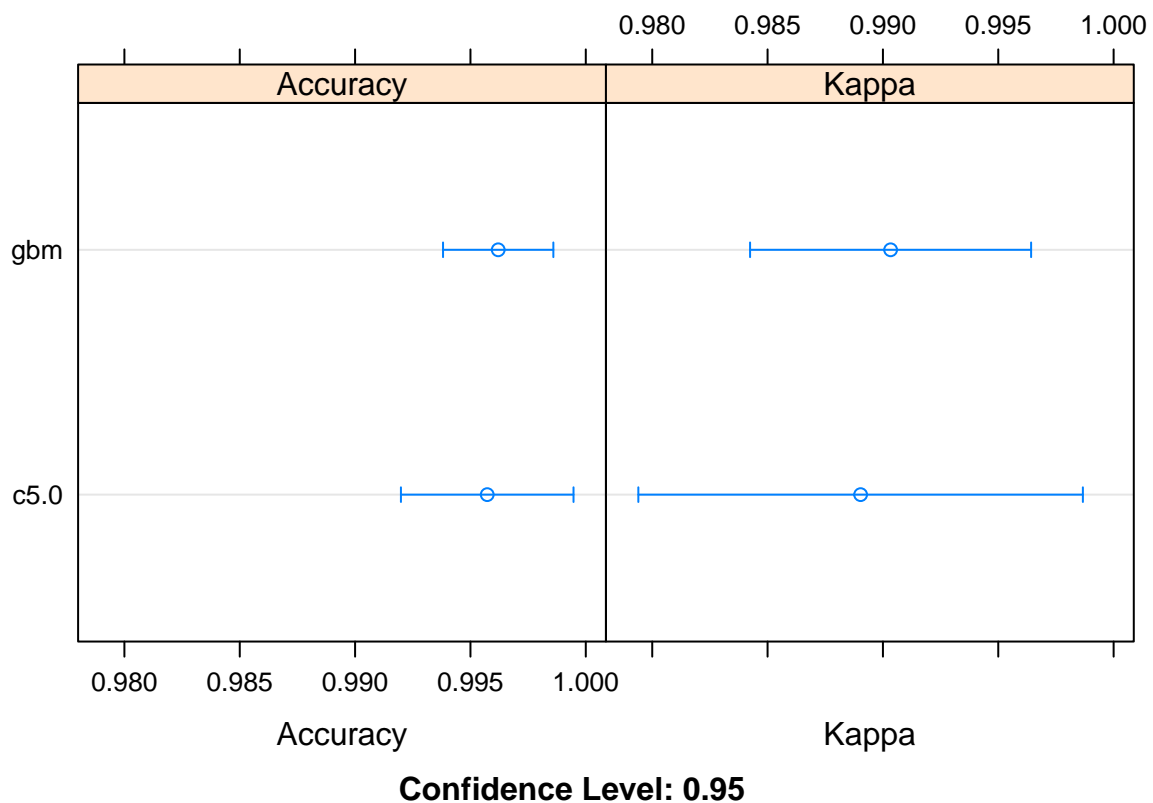
```
## Stochastic Gradient Boosting
##
## 703 samples
## 5 predictor
## 2 classes: '0', '1'
```

```
##
## No pre-processing
## Resampling: Cross-Validated (10 fold, repeated 3 times)
## Summary of sample sizes: 632, 632, 632, 633, 632, 633, ...
## Resampling results across tuning parameters:
##
##   interaction.depth  n.trees  Accuracy   Kappa
##   1                  50      0.9919314 0.9793236
##   1                  100      0.9938362 0.9842629
##   1                  150      0.9943056 0.9854809
##   2                   50      0.9938362 0.9842204
##   2                  100      0.9938362 0.9841807
##   2                  150      0.9943056 0.9853587
##   3                   50      0.9962037 0.9903330
##   3                  100      0.9957275 0.9890687
##   3                  150      0.9957275 0.9890687
##
## Tuning parameter 'shrinkage' was held constant at a value of 0.1
##
## Tuning parameter 'n.minobsinnode' was held constant at a value of 10
## Accuracy was used to select the optimal model using the largest value.
## The final values used for the model were n.trees = 50, interaction.depth =
## 3, shrinkage = 0.1 and n.minobsinnode = 10.
```

```
# summarize results
boosting_results <- resamples(list(c5.0=fit.c50, gbm=fit.gbm))
summary(boosting_results)
```

```
##
## Call:
## summary.resamples(object = boosting_results)
##
## Models: c5.0, gbm
## Number of resamples: 30
##
## Accuracy
##           Min.   1st Qu. Median      Mean 3rd Qu. Max. NA's
## c5.0 0.9571429 1.0000000      1 0.9957277      1    1    0
## gbm  0.9855072 0.9894366      1 0.9962037      1    1    0
##
## Kappa
##           Min.   1st Qu. Median      Mean 3rd Qu. Max. NA's
## c5.0 0.8898216 1.0000000      1 0.9890325      1    1    0
## gbm  0.9617304 0.9734943      1 0.9903330      1    1    0
```

```
dotplot(boosting_results)
```

Mean accuracy of C5.0 is 0.9971429 and gbm is also 0.9971429 and both the boosting algorithms are giving same accuracy

```
# Performing hyperparameter tuning for stochastic gradient boosting
hyperparameter_grid <- expand.grid(
  .n.trees = c(250, 500),
  .interaction.depth=c(2,3),
  .shrinkage=0.5,
  .n.minobsinnode=10
)

data_2 <- data[,-6]
target_class <- factor(ifelse(data$Class.ASD == 0, "No", "Yes"))
data_2 <- cbind(data_2, target_class)
fit_hypertune <- train(target_class ~ . , data = data_2,
  method = "gbm",
  trControl = trainControl(method="cv", number = 5, verboseIter = TRUE, classProbs = TRUE),
  tuneGrid = hyperparameter_grid)
```

```
## + Fold1: shrinkage=0.5, interaction.depth=2, n.minobsinnode=10, n.trees=500
## Iter TrainDeviance ValidDeviance StepSize Improve
##      1          0.4599             nan    0.5000    0.3435
```

##	2	0.2674	nan	0.5000	0.0939
##	3	0.1683	nan	0.5000	0.0467
##	4	0.1118	nan	0.5000	0.0244
##	5	0.0811	nan	0.5000	0.0118
##	6	0.0524	nan	0.5000	0.0102
##	7	0.0416	nan	0.5000	-0.0002
##	8	0.0257	nan	0.5000	0.0046
##	9	0.0226	nan	0.5000	-0.0001
##	10	0.0220	nan	0.5000	-0.0009
##	20	0.0132	nan	0.5000	-0.0039
##	40	0.0054	nan	0.5000	-0.0008
##	60	0.0033	nan	0.5000	-0.0008
##	80	0.0004	nan	0.5000	-0.0001
##	100	0.0003	nan	0.5000	-0.0001
##	120	0.0003	nan	0.5000	-0.0001
##	140	0.0002	nan	0.5000	-0.0000
##	160	0.0000	nan	0.5000	-0.0000
##	180	0.0000	nan	0.5000	-0.0000
##	200	0.0000	nan	0.5000	-0.0000
##	220	0.0000	nan	0.5000	-0.0000
##	240	0.0000	nan	0.5000	0.0000
##	260	0.0001	nan	0.5000	-0.0001
##	280	0.0000	nan	0.5000	-0.0000
##	300	0.0000	nan	0.5000	-0.0000
##	320	0.0000	nan	0.5000	-0.0000
##	340	0.0002	nan	0.5000	-0.0001
##	360	0.0000	nan	0.5000	-0.0000
##	380	0.0000	nan	0.5000	-0.0000
##	400	0.0000	nan	0.5000	-0.0000
##	420	0.0000	nan	0.5000	-0.0000
##	440	0.0000	nan	0.5000	-0.0000
##	460	0.0001	nan	0.5000	-0.0000
##	480	0.0001	nan	0.5000	-0.0000
##	500	0.0000	nan	0.5000	-0.0000

##

- Fold1: shrinkage=0.5, interaction.depth=2, n.minobsinnode=10, n.trees=500

+ Fold1: shrinkage=0.5, interaction.depth=3, n.minobsinnode=10, n.trees=500

##	Iter	TrainDeviance	ValidDeviance	StepSize	Improve
##	1	0.4595	nan	0.5000	0.3808
##	2	0.2714	nan	0.5000	0.0879
##	3	0.1679	nan	0.5000	0.0498
##	4	0.1078	nan	0.5000	0.0278
##	5	0.0616	nan	0.5000	0.0248
##	6	0.0382	nan	0.5000	0.0079
##	7	0.0265	nan	0.5000	0.0040
##	8	0.0205	nan	0.5000	0.0019
##	9	0.0164	nan	0.5000	0.0001
##	10	0.0134	nan	0.5000	0.0012
##	20	0.0065	nan	0.5000	-0.0007
##	40	0.0012	nan	0.5000	-0.0002
##	60	0.0012	nan	0.5000	-0.0003
##	80	0.0011	nan	0.5000	-0.0000
##	100	0.0009	nan	0.5000	-0.0000
##	120	0.0006	nan	0.5000	-0.0001

```

##      140      0.0008      nan      0.5000     -0.0002
##      160      0.0016      nan      0.5000     -0.0005
##      180      0.0005      nan      0.5000     -0.0001
##      200      0.0004      nan      0.5000      0.0000
##      220      0.0004      nan      0.5000     -0.0001
##      240      0.0004      nan      0.5000     -0.0001
##      260      0.0006      nan      0.5000     -0.0002
##      280      0.0003      nan      0.5000     -0.0000
##      300      0.0001      nan      0.5000     -0.0000
##      320      0.0006      nan      0.5000     -0.0002
##      340      0.0002      nan      0.5000     -0.0000
##      360      0.0000      nan      0.5000     -0.0000
##      380      0.0005      nan      0.5000     -0.0002
##      400      0.0001      nan      0.5000     -0.0000
##      420      0.0000      nan      0.5000     -0.0000
##      440      0.0000      nan      0.5000     -0.0000
##      460      0.0003      nan      0.5000     -0.0001
##      480      0.0001      nan      0.5000     -0.0000
##      500      0.0000      nan      0.5000     -0.0000
##
## - Fold1: shrinkage=0.5, interaction.depth=3, n.minobsinnode=10, n.trees=500
## + Fold2: shrinkage=0.5, interaction.depth=2, n.minobsinnode=10, n.trees=500
## Iter   TrainDeviance   ValidDeviance   StepSize   Improve
##      1      0.4597      nan      0.5000      0.3460
##      2      0.2610      nan      0.5000      0.0956
##      3      0.1649      nan      0.5000      0.0466
##      4      0.1108      nan      0.5000      0.0229
##      5      0.0660      nan      0.5000      0.0160
##      6      0.0455      nan      0.5000      0.0089
##      7      0.0351      nan      0.5000      0.0039
##      8      0.0270      nan      0.5000      0.0014
##      9      0.0241      nan      0.5000      0.0007
##     10      0.0208      nan      0.5000     -0.0006
##     20      0.0027      nan      0.5000      0.0004
##     40      0.0007      nan      0.5000     -0.0001
##     60      0.0003      nan      0.5000      0.0000
##     80      0.0005      nan      0.5000      0.0001
##    100      0.0001      nan      0.5000      0.0000
##    120      0.0001      nan      0.5000     -0.0000
##    140      0.0002      nan      0.5000     -0.0001
##    160      0.0000      nan      0.5000     -0.0000
##    180      0.0000      nan      0.5000     -0.0000
##    200      0.0000      nan      0.5000     -0.0000
##    220      0.0000      nan      0.5000     -0.0000
##    240      0.0000      nan      0.5000     -0.0000
##    260      0.0000      nan      0.5000     -0.0000
##    280      0.0000      nan      0.5000     -0.0000
##    300      0.0000      nan      0.5000     -0.0000
##    320      0.0000      nan      0.5000     -0.0000
##    340      0.0000      nan      0.5000     -0.0000
##    360      0.0000      nan      0.5000     -0.0000
##    380      0.0000      nan      0.5000     -0.0000
##    400      0.0000      nan      0.5000     -0.0000
##    420      0.0000      nan      0.5000     -0.0000

```

```

##      440      0.0000      nan      0.5000     -0.0000
##      460      0.0000      nan      0.5000     -0.0000
##      480      0.0000      nan      0.5000     -0.0000
##      500      0.0000      nan      0.5000     -0.0000
##
## - Fold2: shrinkage=0.5, interaction.depth=2, n.minobsinnode=10, n.trees=500
## + Fold2: shrinkage=0.5, interaction.depth=3, n.minobsinnode=10, n.trees=500
## Iter   TrainDeviance   ValidDeviance   StepSize   Improve
##      1      0.4612      nan      0.5000    0.3445
##      2      0.2650      nan      0.5000    0.0968
##      3      0.1638      nan      0.5000    0.0510
##      4      0.1075      nan      0.5000    0.0256
##      5      0.0747      nan      0.5000    0.0120
##      6      0.0478      nan      0.5000    0.0118
##      7      0.0331      nan      0.5000    0.0051
##      8      0.0214      nan      0.5000    0.0030
##      9      0.0148      nan      0.5000    0.0031
##     10      0.0133      nan      0.5000   -0.0006
##     20      0.0049      nan      0.5000   -0.0002
##     40      0.0046      nan      0.5000   -0.0003
##     60      0.0003      nan      0.5000   -0.0001
##     80      0.0002      nan      0.5000   -0.0000
##    100      0.0000      nan      0.5000   -0.0000
##    120      0.0001      nan      0.5000   -0.0000
##    140      0.0000      nan      0.5000   -0.0000
##    160      0.0000      nan      0.5000   -0.0000
##    180      0.0000      nan      0.5000   -0.0000
##    200      0.0000      nan      0.5000    0.0000
##    220      0.0000      nan      0.5000   -0.0000
##    240      0.0000      nan      0.5000   -0.0000
##    260      0.0000      nan      0.5000   -0.0000
##    280      0.0000      nan      0.5000   -0.0000
##    300      0.0000      nan      0.5000   -0.0000
##    320      0.0000      nan      0.5000   -0.0000
##    340      0.0000      nan      0.5000   -0.0000
##    360      0.0000      nan      0.5000    0.0000
##    380      0.0000      nan      0.5000   -0.0000
##    400      0.0000      nan      0.5000   -0.0000
##    420      0.0000      nan      0.5000   -0.0000
##    440      0.0000      nan      0.5000   -0.0000
##    460      0.0000      nan      0.5000   -0.0000
##    480      0.0000      nan      0.5000   -0.0000
##    500      0.0000      nan      0.5000   -0.0000
##
## - Fold2: shrinkage=0.5, interaction.depth=3, n.minobsinnode=10, n.trees=500
## + Fold3: shrinkage=0.5, interaction.depth=2, n.minobsinnode=10, n.trees=500
## Iter   TrainDeviance   ValidDeviance   StepSize   Improve
##      1      0.4643      nan      0.5000    0.3402
##      2      0.2622      nan      0.5000    0.1039
##      3      0.1598      nan      0.5000    0.0501
##      4      0.1020      nan      0.5000    0.0281
##      5      0.0680      nan      0.5000    0.0150
##      6      0.0483      nan      0.5000    0.0077
##      7      0.0311      nan      0.5000    0.0057

```

```

##      8      0.0217      nan      0.5000      0.0027
##      9      0.0184      nan      0.5000      0.0005
##     10      0.0126      nan      0.5000      0.0013
##     20      0.0018      nan      0.5000      0.0001
##     40      0.0032      nan      0.5000     -0.0007
##     60      0.0015      nan      0.5000     -0.0004
##     80      0.0007      nan      0.5000     -0.0001
##    100      0.0005      nan      0.5000     -0.0001
##    120      0.0002      nan      0.5000     -0.0000
##    140      0.0001      nan      0.5000     -0.0000
##    160      0.0001      nan      0.5000     -0.0000
##    180      0.0001      nan      0.5000     -0.0000
##    200      0.0000      nan      0.5000     -0.0000
##    220      0.0000      nan      0.5000     -0.0000
##    240      0.0000      nan      0.5000      0.0000
##    260      0.0000      nan      0.5000      0.0000
##    280      0.0000      nan      0.5000      0.0000
##    300      0.0000      nan      0.5000     -0.0000
##    320      0.0000      nan      0.5000     -0.0000
##    340      0.0000      nan      0.5000     -0.0000
##    360      0.0000      nan      0.5000      0.0000
##    380      0.0000      nan      0.5000     -0.0000
##    400      0.0000      nan      0.5000      0.0000
##    420      0.0000      nan      0.5000     -0.0000
##    440      0.0000      nan      0.5000     -0.0000
##    460      0.0000      nan      0.5000     -0.0000
##    480      0.0000      nan      0.5000     -0.0000
##    500      0.0000      nan      0.5000     -0.0000
##
## - Fold3: shrinkage=0.5, interaction.depth=2, n.minobsinnode=10, n.trees=500
## + Fold3: shrinkage=0.5, interaction.depth=3, n.minobsinnode=10, n.trees=500
## Iter   TrainDeviance   ValidDeviance   StepSize   Improve
##      1      0.4548      nan      0.5000      0.3306
##      2      0.2636      nan      0.5000      0.0929
##      3      0.1634      nan      0.5000      0.0474
##      4      0.1085      nan      0.5000      0.0257
##      5      0.0762      nan      0.5000      0.0139
##      6      0.0536      nan      0.5000      0.0083
##      7      0.0316      nan      0.5000      0.0110
##      8      0.0264      nan      0.5000      0.0011
##      9      0.0172      nan      0.5000      0.0003
##     10      0.0144      nan      0.5000     -0.0012
##     20      0.0059      nan      0.5000     -0.0007
##     40      0.0032      nan      0.5000     -0.0007
##     60      0.0010      nan      0.5000     -0.0001
##     80      0.0035      nan      0.5000     -0.0008
##    100      0.0007      nan      0.5000     -0.0000
##    120      0.0004      nan      0.5000     -0.0000
##    140      0.0011      nan      0.5000      0.0006
##    160      0.0004      nan      0.5000     -0.0000
##    180      0.0003      nan      0.5000     -0.0000
##    200      0.0008      nan      0.5000     -0.0003
##    220      0.0001      nan      0.5000     -0.0000
##    240      0.0006      nan      0.5000     -0.0002

```

```

##      260      0.0001      nan      0.5000     -0.0000
##      280      0.0001      nan      0.5000     -0.0000
##      300      0.0001      nan      0.5000     -0.0000
##      320      0.0001      nan      0.5000     -0.0000
##      340      0.0001      nan      0.5000     -0.0000
##      360      0.0001      nan      0.5000     -0.0000
##      380      0.0001      nan      0.5000     -0.0000
##      400      0.0002      nan      0.5000     -0.0001
##      420      0.0003      nan      0.5000     -0.0001
##      440      0.0001      nan      0.5000     -0.0000
##      460      0.0002      nan      0.5000      0.0001
##      480      0.0001      nan      0.5000     -0.0000
##      500      0.0000      nan      0.5000     -0.0000
##
## - Fold3: shrinkage=0.5, interaction.depth=3, n.minobsinnode=10, n.trees=500
## + Fold4: shrinkage=0.5, interaction.depth=2, n.minobsinnode=10, n.trees=500
## Iter   TrainDeviance   ValidDeviance   StepSize   Improve
##      1      0.4479      nan      0.5000      0.3721
##      2      0.2580      nan      0.5000      0.0902
##      3      0.1564      nan      0.5000      0.0500
##      4      0.0967      nan      0.5000      0.0274
##      5      0.0634      nan      0.5000      0.0164
##      6      0.0416      nan      0.5000      0.0099
##      7      0.0297      nan      0.5000      0.0049
##      8      0.0213      nan      0.5000      0.0027
##      9      0.0116      nan      0.5000      0.0019
##     10      0.0102      nan      0.5000     -0.0002
##     20      0.0029      nan      0.5000     -0.0005
##     40      0.0006      nan      0.5000     -0.0001
##     60      0.0003      nan      0.5000     -0.0001
##     80      0.0002      nan      0.5000     -0.0000
##    100      0.0002      nan      0.5000     -0.0000
##    120      0.0000      nan      0.5000      0.0000
##    140      0.0000      nan      0.5000     -0.0000
##    160      0.0000      nan      0.5000      0.0000
##    180      0.0001      nan      0.5000     -0.0000
##    200      0.0001      nan      0.5000      0.0000
##    220      0.0000      nan      0.5000      0.0000
##    240      0.0000      nan      0.5000     -0.0000
##    260      0.0000      nan      0.5000     -0.0000
##    280      0.0000      nan      0.5000      0.0000
##    300      0.0000      nan      0.5000      0.0000
##    320      0.0000      nan      0.5000     -0.0000
##    340      0.0000      nan      0.5000      0.0000
##    360      0.0000      nan      0.5000     -0.0000
##    380      0.0000      nan      0.5000     -0.0000
##    400      0.0000      nan      0.5000      0.0000
##    420      0.0000      nan      0.5000     -0.0000
##    440      0.0000      nan      0.5000     -0.0000
##    460      0.0000      nan      0.5000     -0.0000
##    480      0.0000      nan      0.5000      0.0000
##    500      0.0000      nan      0.5000      0.0000
##
## - Fold4: shrinkage=0.5, interaction.depth=2, n.minobsinnode=10, n.trees=500

```

+ Fold4: shrinkage=0.5, interaction.depth=3, n.minobsinnode=10, n.trees=500

## Iter	TrainDeviance	ValidDeviance	StepSize	Improve
## 1	0.4558	nan	0.5000	0.3571
## 2	0.2585	nan	0.5000	0.0960
## 3	0.1557	nan	0.5000	0.0504
## 4	0.0968	nan	0.5000	0.0287
## 5	0.0603	nan	0.5000	0.0174
## 6	0.0412	nan	0.5000	0.0078
## 7	0.0312	nan	0.5000	0.0034
## 8	0.0224	nan	0.5000	0.0023
## 9	0.0136	nan	0.5000	0.0012
## 10	0.0101	nan	0.5000	0.0010
## 20	0.0032	nan	0.5000	-0.0006
## 40	0.0009	nan	0.5000	-0.0001
## 60	0.0008	nan	0.5000	0.0000
## 80	0.0002	nan	0.5000	-0.0000
## 100	0.0001	nan	0.5000	-0.0000
## 120	0.0000	nan	0.5000	0.0000
## 140	0.0001	nan	0.5000	-0.0000
## 160	0.0000	nan	0.5000	-0.0000
## 180	0.0000	nan	0.5000	-0.0000
## 200	0.0000	nan	0.5000	-0.0000
## 220	0.0000	nan	0.5000	0.0000
## 240	0.0000	nan	0.5000	0.0000
## 260	0.0000	nan	0.5000	-0.0000
## 280	0.0000	nan	0.5000	-0.0000
## 300	0.0000	nan	0.5000	-0.0000
## 320	0.0000	nan	0.5000	-0.0000
## 340	0.0000	nan	0.5000	-0.0000
## 360	0.0000	nan	0.5000	0.0000
## 380	0.0000	nan	0.5000	-0.0000
## 400	0.0000	nan	0.5000	-0.0000
## 420	0.0000	nan	0.5000	-0.0000
## 440	0.0000	nan	0.5000	-0.0000
## 460	0.0000	nan	0.5000	-0.0000
## 480	0.0000	nan	0.5000	-0.0000
## 500	0.0000	nan	0.5000	-0.0000

##

- Fold4: shrinkage=0.5, interaction.depth=3, n.minobsinnode=10, n.trees=500

+ Fold5: shrinkage=0.5, interaction.depth=2, n.minobsinnode=10, n.trees=500

## Iter	TrainDeviance	ValidDeviance	StepSize	Improve
## 1	0.4513	nan	0.5000	0.3659
## 2	0.2601	nan	0.5000	0.0941
## 3	0.1607	nan	0.5000	0.0458
## 4	0.1010	nan	0.5000	0.0279
## 5	0.0672	nan	0.5000	0.0143
## 6	0.0426	nan	0.5000	0.0101
## 7	0.0306	nan	0.5000	0.0053
## 8	0.0219	nan	0.5000	0.0012
## 9	0.0201	nan	0.5000	-0.0000
## 10	0.0163	nan	0.5000	0.0011
## 20	0.0044	nan	0.5000	-0.0003
## 40	0.0014	nan	0.5000	-0.0001
## 60	0.0017	nan	0.5000	-0.0002

##	80	0.0022	nan	0.5000	-0.0006
##	100	0.0009	nan	0.5000	-0.0000
##	120	0.0007	nan	0.5000	-0.0001
##	140	0.0008	nan	0.5000	-0.0001
##	160	0.0002	nan	0.5000	0.0000
##	180	0.0001	nan	0.5000	-0.0000
##	200	0.0001	nan	0.5000	-0.0000
##	220	0.0001	nan	0.5000	-0.0000
##	240	0.0000	nan	0.5000	-0.0000
##	260	0.0000	nan	0.5000	-0.0000
##	280	0.0000	nan	0.5000	-0.0000
##	300	0.0001	nan	0.5000	-0.0000
##	320	0.0000	nan	0.5000	-0.0000
##	340	0.0000	nan	0.5000	-0.0000
##	360	0.0000	nan	0.5000	-0.0000
##	380	0.0000	nan	0.5000	-0.0000
##	400	0.0000	nan	0.5000	-0.0000
##	420	0.0001	nan	0.5000	-0.0000
##	440	0.0000	nan	0.5000	-0.0000
##	460	0.0001	nan	0.5000	0.0000
##	480	0.0000	nan	0.5000	-0.0000
##	500	0.0001	nan	0.5000	-0.0000

##

- Fold5: shrinkage=0.5, interaction.depth=2, n.minobsinnode=10, n.trees=500

+ Fold5: shrinkage=0.5, interaction.depth=3, n.minobsinnode=10, n.trees=500

##	Iter	TrainDeviance	ValidDeviance	StepSize	Improve
##	1	0.4505	nan	0.5000	0.3436
##	2	0.2590	nan	0.5000	0.0943
##	3	0.1580	nan	0.5000	0.0482
##	4	0.1003	nan	0.5000	0.0264
##	5	0.0679	nan	0.5000	0.0145
##	6	0.0376	nan	0.5000	0.0125
##	7	0.0268	nan	0.5000	0.0046
##	8	0.0180	nan	0.5000	0.0012
##	9	0.0126	nan	0.5000	0.0019
##	10	0.0087	nan	0.5000	0.0021
##	20	0.0031	nan	0.5000	-0.0003
##	40	0.0033	nan	0.5000	-0.0007
##	60	0.0028	nan	0.5000	-0.0006
##	80	0.0105	nan	0.5000	0.0017
##	100	0.0016	nan	0.5000	-0.0004
##	120	0.0003	nan	0.5000	-0.0000
##	140	0.0002	nan	0.5000	-0.0000
##	160	0.0001	nan	0.5000	-0.0000
##	180	0.0005	nan	0.5000	0.0001
##	200	0.0002	nan	0.5000	-0.0001
##	220	0.0004	nan	0.5000	-0.0002
##	240	0.0001	nan	0.5000	-0.0000
##	260	0.0001	nan	0.5000	-0.0000
##	280	0.0001	nan	0.5000	-0.0000
##	300	0.0001	nan	0.5000	-0.0000
##	320	0.0002	nan	0.5000	-0.0001
##	340	0.0001	nan	0.5000	-0.0000
##	360	0.0001	nan	0.5000	-0.0000


```

##      380      0.0003      nan      0.5000     -0.0001
##      400      0.0002      nan      0.5000     -0.0000
##      420      0.0000      nan      0.5000     -0.0000
##      440      0.0000      nan      0.5000     -0.0000
##      460      0.0001      nan      0.5000     -0.0000
##      480      0.0000      nan      0.5000     -0.0000
##      500      0.0000      nan      0.5000     -0.0000
##
## - Fold5: shrinkage=0.5, interaction.depth=3, n.minobsinnode=10, n.trees=500
## Aggregating results
## Selecting tuning parameters
## Fitting n.trees = 500, interaction.depth = 3, shrinkage = 0.5, n.minobsinnode = 10 on full training s
## Iter   TrainDeviance   ValidDeviance   StepSize   Improve
##      1      0.4581      nan      0.5000     0.3488
##      2      0.2632      nan      0.5000     0.0920
##      3      0.1602      nan      0.5000     0.0515
##      4      0.1030      nan      0.5000     0.0275
##      5      0.0685      nan      0.5000     0.0151
##      6      0.0479      nan      0.5000     0.0089
##      7      0.0368      nan      0.5000     0.0040
##      8      0.0281      nan      0.5000     0.0030
##      9      0.0202      nan      0.5000     0.0015
##     10      0.0172      nan      0.5000     0.0003
##     20      0.0104      nan      0.5000    -0.0007
##     40      0.0103      nan      0.5000    -0.0011
##     60      0.0030      nan      0.5000    -0.0007
##     80      0.0016      nan      0.5000    -0.0003
##    100      0.0019      nan      0.5000    -0.0005
##    120      0.0003      nan      0.5000     0.0000
##    140      0.0005      nan      0.5000    -0.0002
##    160      0.0005      nan      0.5000    -0.0002
##    180      0.0003      nan      0.5000    -0.0000
##    200      0.0003      nan      0.5000    -0.0000
##    220      0.0004      nan      0.5000    -0.0001
##    240      0.0003      nan      0.5000    -0.0000
##    260      0.0002      nan      0.5000    -0.0001
##    280      0.0002      nan      0.5000    -0.0000
##    300      0.0003      nan      0.5000    -0.0001
##    320      0.0007      nan      0.5000    -0.0002
##    340      0.0002      nan      0.5000    -0.0000
##    360      0.0001      nan      0.5000    -0.0000
##    380      0.0015      nan      0.5000     0.0007
##    400      0.0004      nan      0.5000    -0.0000
##    420      0.0001      nan      0.5000    -0.0000
##    440      0.0003      nan      0.5000    -0.0000
##    460      0.0003      nan      0.5000    -0.0000
##    480      0.0005      nan      0.5000    -0.0002
##    500      0.0004      nan      0.5000    -0.0001

```

```
print(fit_hypertune)
```

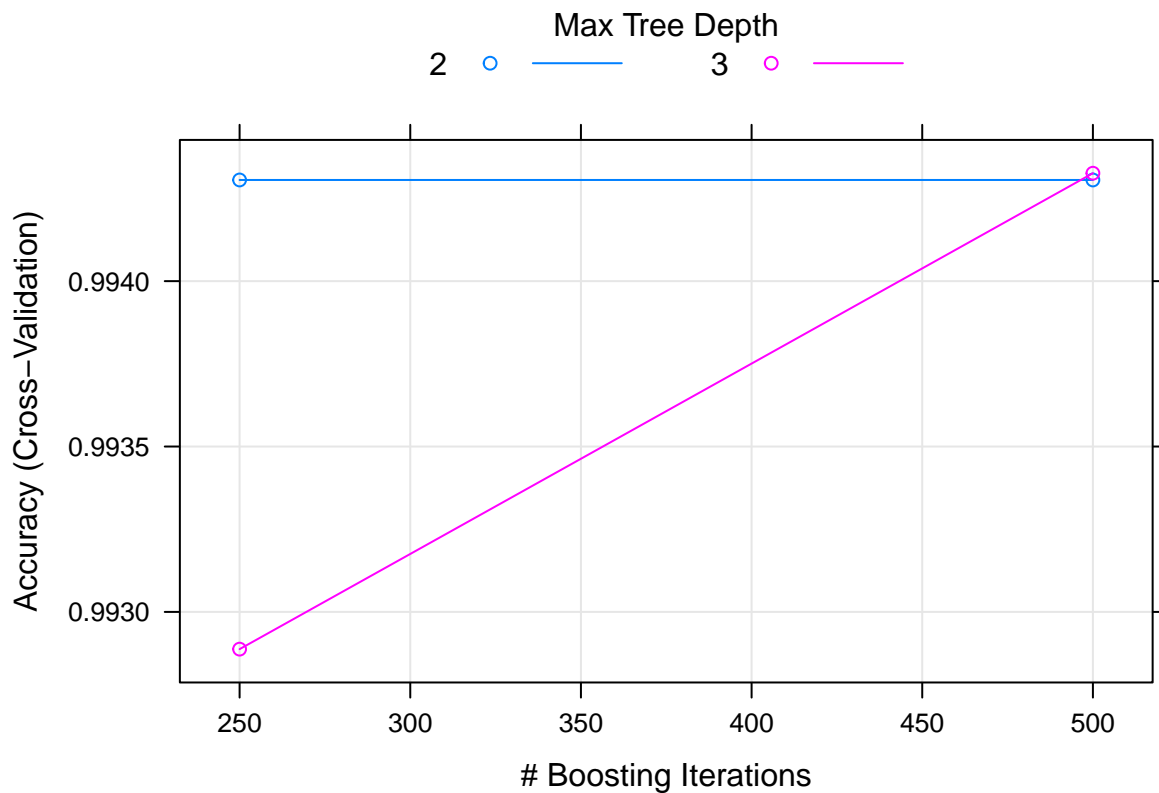
```

## Stochastic Gradient Boosting
##
## 703 samples

```

```
## 5 predictor
## 2 classes: 'No', 'Yes'
##
## No pre-processing
## Resampling: Cross-Validated (5 fold)
## Summary of sample sizes: 564, 562, 562, 562, 562
## Resampling results across tuning parameters:
##
## interaction.depth n.trees Accuracy Kappa
## 2 250 0.9943058 0.9855108
## 2 500 0.9943058 0.9855108
## 3 250 0.9928874 0.9818179
## 3 500 0.9943262 0.9854695
##
## Tuning parameter 'shrinkage' was held constant at a value of 0.5
##
## Tuning parameter 'n.minobsinnode' was held constant at a value of 10
## Accuracy was used to select the optimal model using the largest value.
## The final values used for the model were n.trees = 500, interaction.depth =
## 3, shrinkage = 0.5 and n.minobsinnode = 10.
```

```
plot(fit_hypertune)
```



The following accuracies were obtained corresponding to the hyperparameters

n.trees	Accuracy	Kappa
250	0.9971631	0.9927946
500	0.9957447	0.9892223
250	0.9971631	0.9926734
500	0.9957345	0.9891526

We can see that the accuracy of the gbm slightly improved after hyperparameter tuning, going from 0.9971429 to 0.9971631 at interaction depth 2 and 250 trees.

In conclusion, all of the implemented algorithms successfully classified the individuals in our dataset # into ASD patients and normal individuals based on the 20 independent features. These 20 features were subjected to PCA, and the first five principal components were chosen because they accounted for more than 95% of the variation in the dataset. These five principal components were then used as independent features by all machine learning algorithms, including ANN.

Including Plots

You can also embed plots, for example:

```
Final_plot <- plot(pressure)
```



```
Final_plot
```

```
## NULL
```

Note that the `echo = FALSE` parameter was added to the code chunk to prevent printing of the R code that generated the plot.