

# Analysis of General Social Survey Data

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## Introduction

This document analyzes the relationship between education level and income using the General Social Survey (GSS) dataset.

## 1. Loading the Required Libraries

```
library(haven)    # For importing SAS files
```

```
## Warning: package 'haven' was built under R version 4.4.3
```

```
library(tidyverse) # For data manipulation & visualization
```

```
## Warning: package 'tidyverse' was built under R version 4.4.3
```

```
## Warning: package 'ggplot2' was built under R version 4.4.3
```

```
## Warning: package 'tibble' was built under R version 4.4.3
```

```
## Warning: package 'tidyr' was built under R version 4.4.3
```

```
## Warning: package 'readr' was built under R version 4.4.3
```

```
## Warning: package 'purrr' was built under R version 4.4.3
```

```
## Warning: package 'dplyr' was built under R version 4.4.3
```

```
## Warning: package 'stringr' was built under R version 4.4.3
```

```
## Warning: package 'forcats' was built under R version 4.4.3
```

```
## Warning: package 'lubridate' was built under R version 4.4.3
```

```
## — Attaching core tidyverse packages — tidyverse 2.0.0 —
## ✓ dplyr      1.1.4    ✓ readr      2.1.5
## ✓ forcats    1.0.0    ✓ stringr    1.5.1
## ✓ ggplot2    3.5.1    ✓ tibble     3.2.1
## ✓ lubridate  1.9.4    ✓ tidyr      1.3.1
## ✓ purrr      1.0.4
## — Conflicts — tidyverse_conflicts() —
## ✗ dplyr::filter() masks stats::filter()
## ✗ dplyr::lag()    masks stats::lag()
## ⓘ Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to be
come errors
```

```
library(corrplot) # For correlation plots
```

```
## Warning: package 'corrplot' was built under R version 4.4.3
```

```
## corrplot 0.95 loaded
```

## 2. Importing the GSS Dataset

```
# Replace "path/to/your/file.sas7bdat" with the actual file path
gss_data <- read_sas("C:/Users/HP/Downloads/2021/2021/gss2021.sas7bdat")
glimpse(gss_data) # Overview of the dataset
```

```

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## Columns: 897
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## \$ RELHHD13	<dbl> NA, NA, NA, NA, NA, NA, 5, NA, NA, NA, NA, NA, NA, NA, N...
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## \$ HHTYPE	<dbl> 102, 1, NA, NA, NA, 1, 203, 1, 3, 1, 4, 100, 3, 141, 3, ...
## \$ HHTYPE1	<dbl> 1, 4, NA, NA, NA, 4, 11, 4, 1, 4, 11, 8, 1, 11, 1, NA, N...
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## \$ RVISITOR	<dbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,...
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## $ MASEI10EDUC <dbl> 97.8, NA, 48.9, 56.1, 69.1, NA, 17.3, 92.0, 56.1, 37.0, ...
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## $ COPRES105PLUS <dbl> NA, NA, NA, NA, 29, NA, NA, NA, NA, NA, NA, NA, NA, NA, ...
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## $ MARCOHRT    <dbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, ...
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[illegible]

[illegible]

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## \$ FREEMIND	<dbl> 4, NA, NA, NA, 2, 2, 3, 2, 2, 2, 4, 3, 3, 3, 4, 1, 3, 3,...
## \$ DECEVIDC	<dbl> 2, NA, NA, NA, 3, 2, 2, 2, 2, 1, 2, 1, 4, 1, 1, 1, 2, 2,...
## \$ ADVFMSCI	<dbl> 3, NA, NA, NA, 3, 2, 1, 2, 2, 1, 2, 2, 3, 2, 3, 2, 2, 3,...
## \$ PROCHOIC	<dbl> 1, NA, NA, NA, 1, 2, 4, 1, 2, 1, 1, 4, 2, 3, 1, 1, 2, 1,...
## \$ PROLIFE	<dbl> 4, NA, NA, NA, 3, 2, 2, 5, 4, 3, 5, 1, 4, 5, 5, 5, 2, 3,...
## \$ GODUSA	<dbl> 3, NA, NA, NA, 3, 2, 3, 3, 4, 3, 3, 3, 4, 4, 5, 5, 2, 4,...
## \$ GOVCHRST	<dbl> 3, NA, NA, NA, 3, 2, 2, 4, 4, 3, 5, 3, 4, 5, 3, 5, 3, 5,...
## \$ BUSEQINC	<dbl> 3, NA, NA, NA, NA, NA, NA, NA, 4, 1, NA, 5, 3, NA, NA, 4...
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## \$ GOVFNANC	<dbl> 3, NA, NA, NA, NA, NA, NA, NA, 2, 2, NA, 2, 1, NA, NA, 3...
## \$ DCLINDUS	<dbl> 3, NA, NA, NA, NA, NA, NA, NA, 2, 3, NA, 1, 2, NA, NA, 3...
## \$ GOVFNAID	<dbl> 2, NA, NA, NA, NA, NA, NA, NA, 2, 1, NA, 5, 2, NA, NA, 2...
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## \$ HIVIMMRL	<dbl> 1, NA, NA, NA, NA, NA, 1, NA, 4, NA, NA, 3, 1, NA, 1, 1,...
## \$ HIVDSCRM	<dbl> 3, NA, NA, NA, NA, NA, NA, NA, 4, 3, NA, 3, 1, NA, 2, 4,...
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## \$ PTNRSXBRTH	<dbl> 1, NA, NA, NA, NA, NA, 2, NA, 2, 1, NA, 2, 1, NA, 2, 1, ...
## \$ PTNRSXNOW	<dbl> 1, NA, NA, NA, NA, NA, 2, NA, 2, 1, NA, 2, 1, NA, 2, 1, ...
## \$ POLTRTBLK	<dbl> NA, NA, NA, NA, 1, 4, 1, 2, 3, NA, 4, NA, NA, 1, 1, NA, ...
## \$ POLTRTHSP	<dbl> NA, NA, NA, NA, 1, 4, 1, 2, 3, NA, 4, NA, NA, 2, 2, NA, ...

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## $ DEFUND <dbl> NA, NA, NA, NA, 1, 1, 1, 1, 1, NA, 1, NA, NA, 1, 1, NA, ...
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## $ CONPHARVACY <dbl> NA, NA, NA, NA, NA, NA, NA, 2, 2, NA, NA, NA, NA, NA, NA...
## $ CONFEDVAC <dbl> NA, NA, NA, NA, 2, 2, 2, NA, NA, NA, 3, NA, NA, 2, 2, NA...
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## $ WTSSNRPS <dbl> 1.7934765, 0.3198628, 1.2228182, 1.7997488, 1.7294475, 0...
## $ USWARYV <dbl> NA, NA, NA, NA, NA, NA, NA, 2, NA, NA, NA, NA, NA, NA, N...
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## $ COURTSV <dbl> NA, 3, NA, 2, NA, NA, NA, 3, 1, 1, NA, 2, NA, NA, NA, 1,...
## $ DISCAFFWV <dbl> NA, 3, NA, 2, NA, NA, NA, 2, 2, NA, NA, NA, NA, NA, NA, ...
## $ RACOPENV <dbl> NA, 2, NA, 2, NA, NA, NA, 1, 2, 1, NA, 2, NA, NA, NA, 2,...
## $ GETAHEADV <dbl> NA, NA, NA, NA, NA, NA, NA, 2, NA, 2, NA, 1, NA, NA, NA,...
## $ DIVLAWV <dbl> NA, 3, NA, 3, NA, NA, NA, 1, 3, NA, NA, NA, NA, NA, NA, ...
## $ HELPFULV <dbl> NA, 3, NA, 2, NA, NA, NA, NA, 2, 2, NA, 1, NA, NA, NA, 2...
## $ FAIRV <dbl> NA, 3, NA, 3, NA, NA, NA, NA, 2, NA, NA, NA, NA, NA, NA,...
## $ TRUSTV <dbl> NA, 3, NA, 3, NA, NA, NA, NA, 2, 3, NA, 2, NA, NA, NA, 3...
## $ AGEDV <dbl> NA, 2, NA, 1, NA, NA, NA, NA, 1, 1, NA, 3, NA, NA, NA, 3...
## $ GRASSV <dbl> NA, 1, NA, 1, NA, NA, NA, NA, 1, 2, NA, NA, NA, NA, NA, ...
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## $ BIBLEV <dbl> NA, 3, NA, NA, NA, NA, NA, 2, 3, 3, NA, 4, NA, NA, NA, 3...
## $ POSTLIFEV <dbl> NA, 1, NA, NA, NA, NA, NA, 1, 1, NA, NA, 1, NA, NA, NA, ...
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## $ USCITZNV <dbl> NA, NA, NA, NA, NA, NA, NA, NA, 1, NA, 1, NA, NA, NA...
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## $ FEPOLV <dbl> NA, 2, NA, 2, NA, NA, NA, 2, 2, NA, NA, NA, NA, NA, NA, ...
## $ USWARYNV <dbl> NA, NA, 1, NA, 2, 2, NA, NA, NA, NA, 1, NA, NA, 2, NA, N...
## $ PRAYERNV <dbl> NA, NA, 2, NA, 1, 1, 1, NA, NA, NA, 1, NA, NA, 1, 1, NA,...
## $ COURTSNV <dbl> NA, NA, 1, NA, 1, 1, 2, NA, NA, NA, 1, NA, NA, 1, NA, NA...
## $ DISCAFFWNV <dbl> NA, NA, 1, NA, 1, 2, 2, NA, NA, NA, 3, NA, NA, 2, 1, NA,...
## $ RACOPENNV <dbl> 2, NA, 2, NA, 2, 1, 2, NA, NA, NA, 2, NA, 2, 2, 2, NA, 2...
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## $ DIVLAWNV <dbl> NA, NA, 1, NA, 1, 1, 1, NA, NA, NA, 1, NA, NA, 1, NA, NA...
## $ HELPFULNV <dbl> 1, NA, NA, NA, NA, NA, 1, NA, NA, NA, NA, NA, 2, NA, 1, ...
## $ FAIRNV <dbl> NA, NA, NA, NA, NA, NA, 1, NA, NA, NA, NA, NA, NA, NA, 2...
## $ TRUSTNV <dbl> 1, NA, NA, NA, NA, NA, 1, NA, NA, NA, NA, NA, 2, NA, 1, ...
## $ AGEDNV <dbl> 2, NA, NA, NA, NA, NA, 1, NA, NA, NA, NA, NA, 1, NA, 1, ...
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## $ BIBLENV <dbl> 2, NA, NA, NA, 2, 1, 2, NA, NA, NA, 3, NA, 2, 2, 2, NA, ...
## $ POSTLIFENV <dbl> 2, NA, NA, NA, 1, 1, 1, NA, NA, NA, 1, NA, 1, 1, 1, NA, ...
## $ KIDSSOLNV <dbl> 4, NA, NA, NA, NA, NA, 1, NA, NA, NA, NA, NA, NA, NA, 3,...
## $ USCITZNNV <dbl> NA, NA, NA, NA, 1, NA, 1, NA, NA, NA, NA, NA, NA, NA, NA...
## $ FUCITZNNV <dbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, ...
## $ FEPOLNV <dbl> NA, NA, 2, NA, 2, 2, 2, NA, NA, NA, 1, NA, NA, 2, 2, NA,...
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## $ SPWRKSLFFAM <dbl> 2, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, 1, NA, NA...
## $ CHILDSINHH <dbl> 0, 0, 0, 0, 0, 0, 5, 0, 0, 0, 2, 0, 0, 1, 0, 0, 0, 0, 0,...
## $ ADULTSINHH <dbl> 4, 1, NA, NA, 2, 1, 8, 1, 2, 1, 2, 4, 2, 3, 2, 2, 3, 2, ...
## $ WHATSP2 <dbl> 4, NA, NA, NA, NA, NA, NA, NA, 4, NA, 4, NA, 1, NA, 4, N...

```

```
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## $ COWRKSFLFFAM   <dbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, ...
## $ COWKSUP        <dbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, ...
## $ WHATC02        <dbl> NA, NA, NA, NA, 4, NA, NA, NA, NA, NA, NA, NA, NA, N...
```

## 3. Data Cleaning & Selection

```
gss_subset <- gss_data %>%
  select(EDUC, REALINC) %>% # Selecting education and income variables
  drop_na() # Removing missing values
summary(gss_subset)
```

```
##      EDUC      REALINC
## Min.   : 0.00   Min.   :  218
## 1st Qu.:12.00   1st Qu.:14170
## Median :15.00   Median :29430
## Mean   :14.87   Mean    :37498
## 3rd Qu.:16.00   3rd Qu.:43600
## Max.   :20.00   Max.    :120197
```

## 4. Statistical Analysis

### 4.1 Correlation between Education and Income

```
correlation <- cor(gss_subset$EDUC, gss_subset$REALINC, use = "complete.obs")
correlation
```

```
## [1] 0.3778067
```

### 4.2 Linear Regression

```
model <- lm(REALINC ~ EDUC, data = gss_subset)
summary(model)
```

```
##
## Call:
## lm(formula = REALINC ~ EDUC, data = gss_subset)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -60953 -19301  -7888   9615 105192
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept) -31162.0     2894.2  -10.77  <2e-16 ***
## EDUC         4616.7       191.4   24.12  <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 31030 on 3495 degrees of freedom
## Multiple R-squared:  0.1427, Adjusted R-squared:  0.1425
## F-statistic: 581.9 on 1 and 3495 DF,  p-value: < 2.2e-16
```

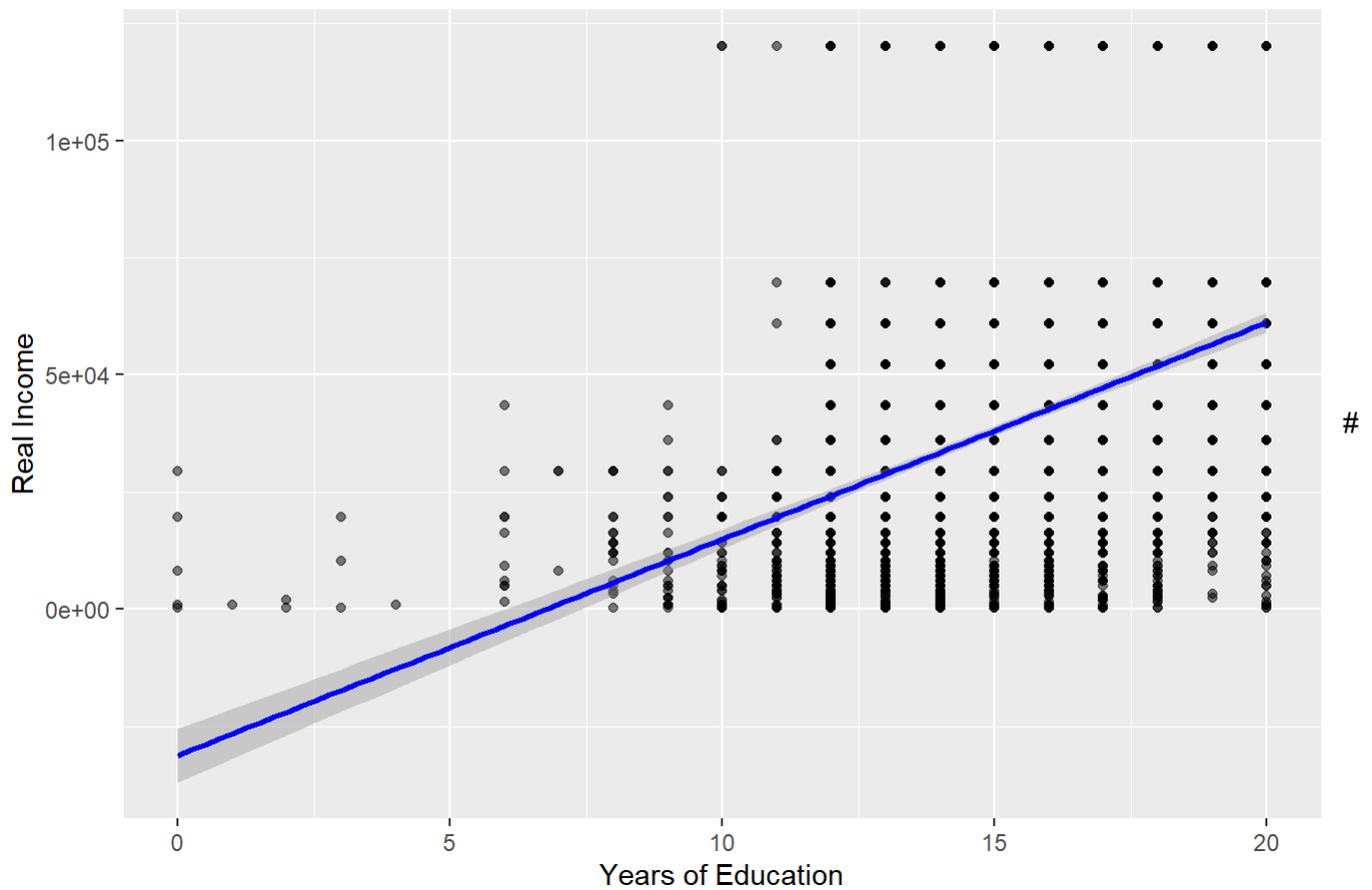
## 5. Data Visualization

### 5.1 Scatter Plot with Regression Line

```
ggplot(gss_subset, aes(x = EDUC, y = REALINC)) +
  geom_point(alpha = 0.5) +
  geom_smooth(method = "lm", col = "blue") +
  labs(title = "Relation between Education Level and Income",
       x = "Years of Education",
       y = "Real Income")
```

```
## `geom_smooth()` using formula = 'y ~ x'
```

## Relation between Education Level and Income



### 5.2 Correlation Matrix

## Selecting relevant variables

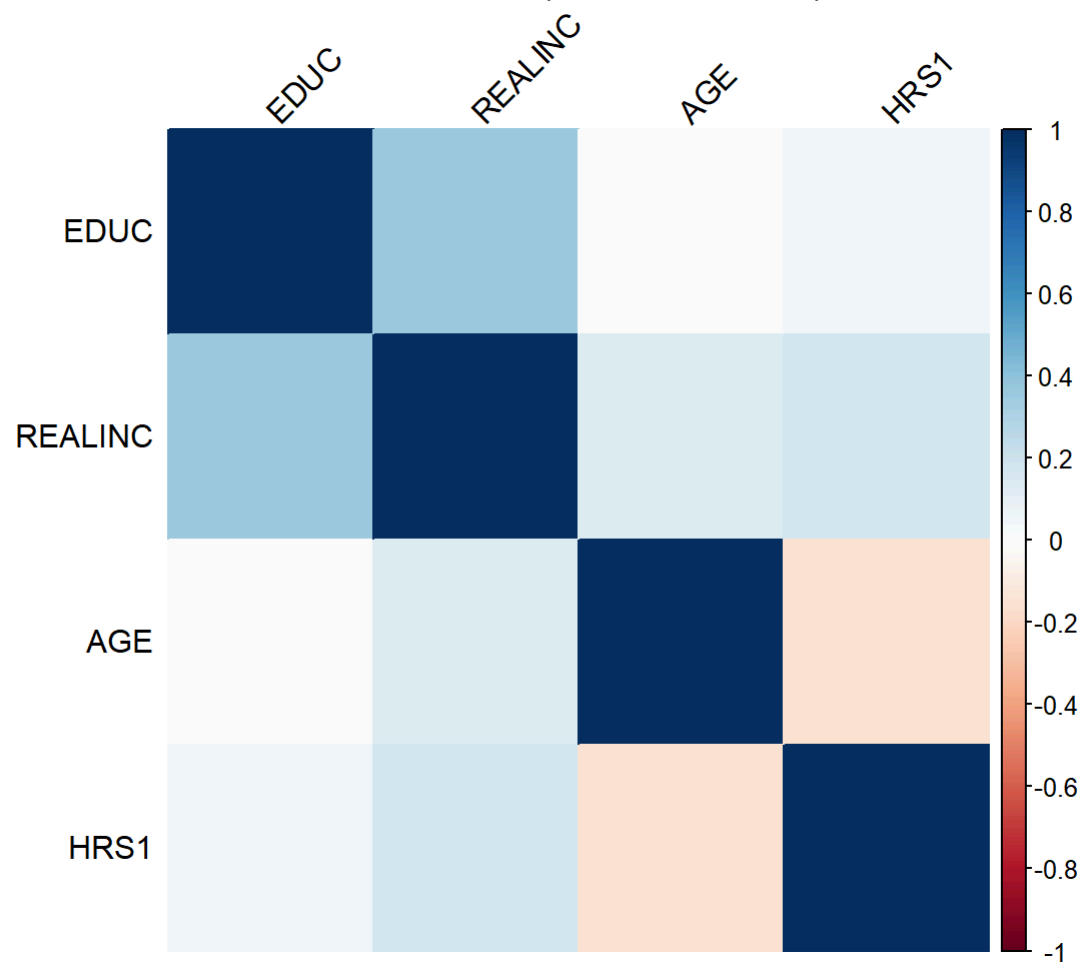
```
gss_corr <- gss_data %>%
  select(EDUC, REALINC, AGE, HRS1) %>%
  drop_na()
```

## Computing correlation matrix

```
corr_matrix <- cor(gss_corr)
```

## Plotting correlation matrix

```
corrplot(corr_matrix, method = "color", tl.col = "black", tl.srt = 45)
```



## 6. Conclusion The analysis shows a positive correlation between education level and income. Further analysis could include more variables such as age, gender, and job prestige.