

Instructions for Reproducing This Analysis

Mohsen Monji

2024-09-19

Introduction

This document provides an overview of the steps required to reproduce the analysis of disparities in self-rated mental health among young adults (aged 18-39) in Canada using the 2017 General Social Survey-Public Microdata Files. The analysis is organized into three stages using three R scripts:

1. **Data Wrangling:** Cleaning and recoding variables.
 2. **Descriptive Statistics:** Producing frequencies and proportions of self-rated mental health by various socio-demographic variables among young adults (aged 18-39).
 3. **Chi-Square Tests and Logistic Regression:** Analyzing associations between self-rated mental health and predictors using chi-square tests and logistic regression.
-

Step 1: Download Files.zip in this repository

Download the Files.zip in this repository, unzip it and save it in a directory of your choice on your machine.

Step 2: Download the GSS 2017 Dataset

The GSS-2017 dataset is not included in the repository due to licensing restrictions. Download it from ODESI at [<https://odesi.ca/>] and follow the steps below:

1. Unzip the file and rename it to `gss2017.csv`.
 2. Move the `gss2017.csv` file to the main directory that you placed the R scripts in the Files.zip.
-

Step 3: Run R Scripts

Follow the steps below to reproduce the analysis:

3.1 Data Wrangling

First, run the `Code for Data Wrangling.R` script. This will recode the variables of interest, drop cases with missing values, and output a cleaned dataset with only the selected variables named (`gss_2017_selected.csv`), which is used in the subsequent analysis. The `gss_2017_selected.csv` will be saved in the main directory where the R scripts are located.

3.2 Descriptive Statistics

Second, run the `Code for Descriptive Statistics.R` script. It will first filter the saved dataset from the previous step to include only young adults (aged 18-39) and then calculate the frequencies and proportions of self-rated mental health by various predictors such as sex, marital status, household income, etc.

3.3 Chi-Square Tests and Logistic Regression

Third, run the `Code for Logistic Regression.R` script. It will perform chi-square tests for associations between self-rated mental health and the categorical predictors. It will also fit a logistic regression model to further explore these associations adjusting for confounders. The script will display the results of the chi-square tests and the logistic regression model, including odds ratios and confidence intervals.

Final Words

By following the steps outlined above, you will be able to reproduce the analysis of disparities in self-rated mental health among young adults (aged 18-39) in Canada using the 2017 General Social Survey data. Ensure the dataset is placed in the correct directory, and run the R scripts to reproduce this analysis.

If you encounter any issues, feel free to reach out for assistance!