Exploratory Data Analysis

Student Mental Health

Jonathan Steen

Bellevue University

DSC 530

Final Project

**Research Question**

1. Does the treatment status of mental health affect CGPA?

**Hypothesis**

1. I hypothesize those who seek treatment will have a better CGPA than those who did not seek treatment.
2. Alt. Scenario: Depression will affect CGPA

**Data**

The data was collected from Kaggle. This dataset was collected by a survey conducted by Google forms from university students to examine their current academic situation and mental health.​ <https://www.kaggle.com/datasets/shariful07/student-mental-health>​

**Variables**

The dataset consists of eleven total variables of which I’ll be using six.

**Variable Descriptions**

* Gender​ - 'Choose your gender'​ - Gender of student​
  + 0 = Male
  + 1 = Female
* Age​ - 'Age'​ - Age of student​
* Year of Study – ‘Year of Study’ – Classification
  + 3.50 - 4.00 = 5
  + 3.00 - 3.49 = 4
  + 2.50 - 2.99 = 3
  + 2.00 - 2.49 = 2
  + 0 - 1.99 = 1
* CGPA​ - 'What is your CGPA?'​ - Cumulative grade point average of student​
* Depression​ - 'Do you have depression?'​ - Depression status of student ​
  + 0 = no
  + 1 = yes
* Anxiety​ - 'Do you have anxiety?'​ - Anxiety status of student ​
  + 0 = no
  + 1 = yes
* Treatment​ - 'Did you seek any specialist for a treatment?'​ - Treatment status of student​
  + 0 = no
  + 1 = yes

**Outcome**

Based on my EDA it is inconclusive if those who seek treatment will have a better CGPA than those who do seek treatment. I think more respondents and data are needed to really get an accurate picture.