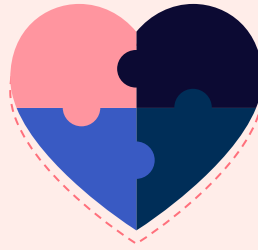


Depression Analysis

Karlie

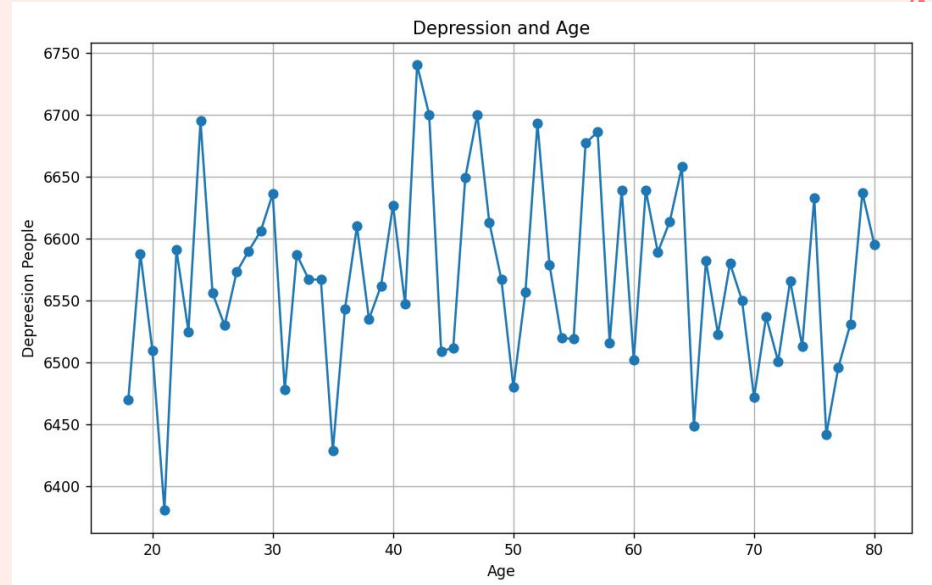


Dataset

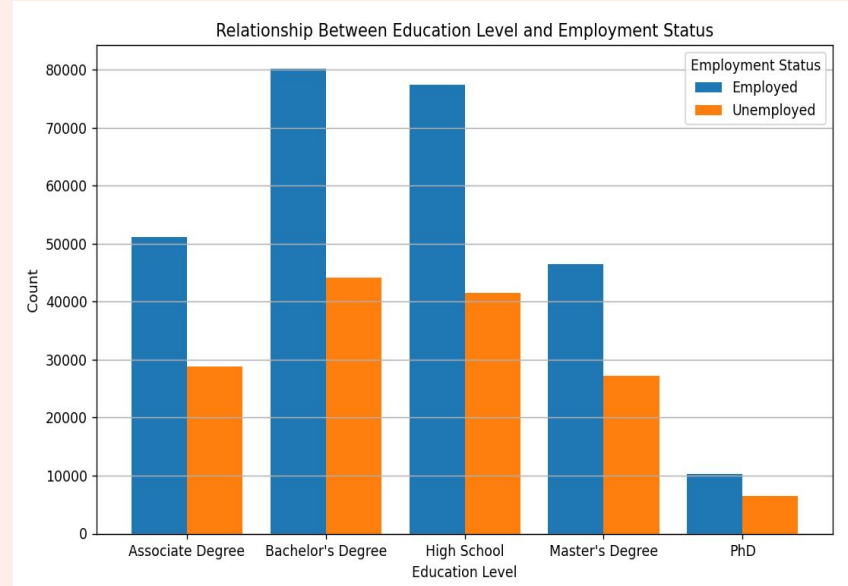
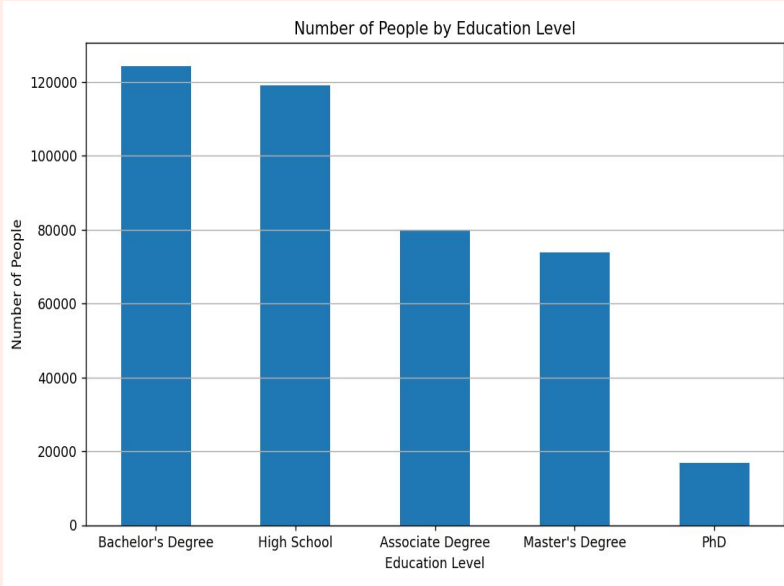
- <https://www.kaggle.com/datasets/anthonytherrien/depression-dataset?resource=download>
- Name (str)
- Age (int)
- Marital Status (Single, Married, Divorced, Widowed)
- Education Level (High School, Associate Degree, Bachelor's Degree, Master's Degree, PhD)
- Number of Children (int)
- Smoking Status (Smoker, Former, Non-smoker)
- Physical Activity Level (Sedentary, Moderate, Active)
- Employment Status (Employed, Unemployed)
- Income (number)
- Alcohol Consumption (Low, Moderate, High)
- Dietary Habits (Healthy, Moderate, Unhealthy)
- Sleep Patterns (Good, Fair, Poor)
- History of Mental Illness (Yes, No)
- History of Substance Abuse (Yes, No)
- Family History of Depression (Yes, No)
- Chronic Medical Conditions (Yes, No)

Age and Depression

1. No clear trend of the age of people getting depression, so it could happen to people in every age level.
2. People get different problems in each age.

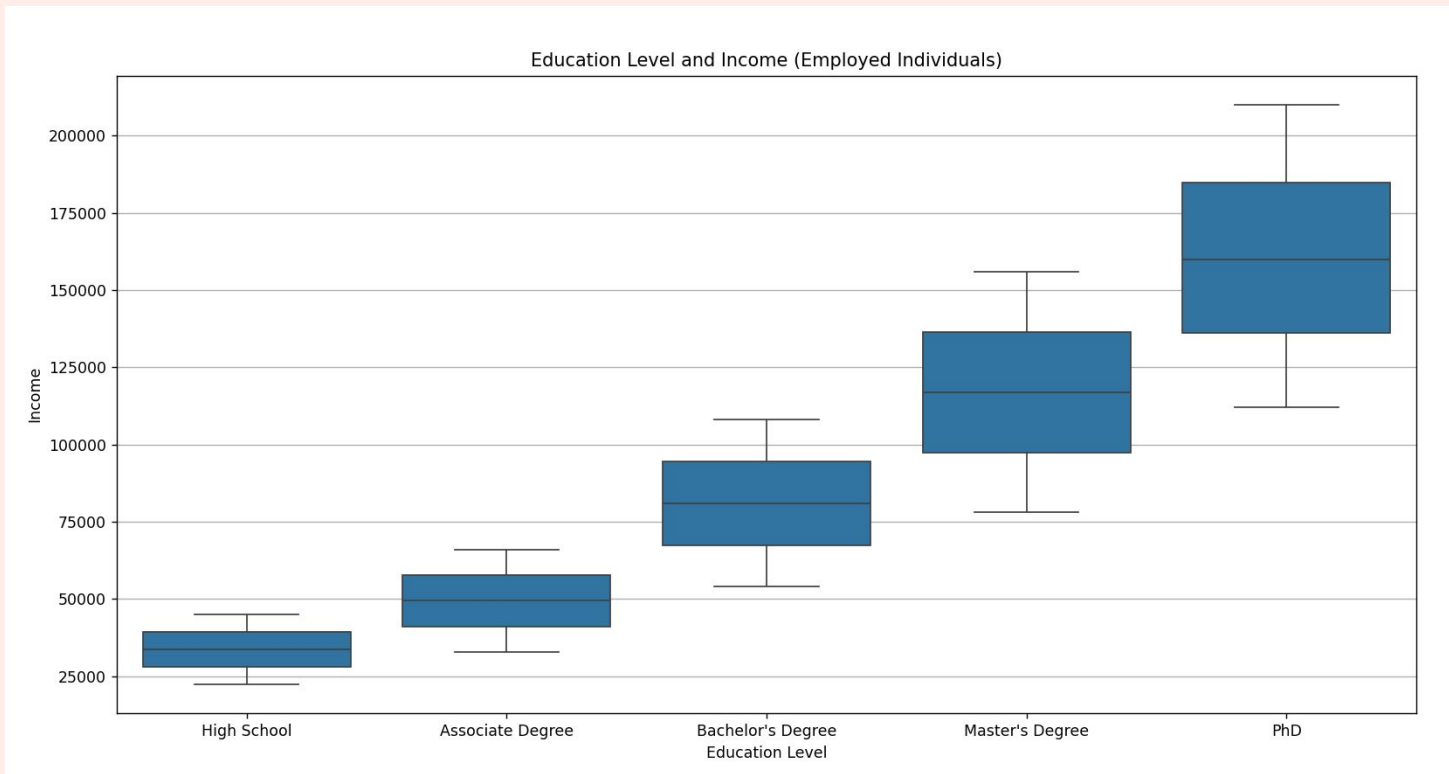


Education and Employment



```
Employment Status
Employed      265659
Unemployed    148109
```

Education Level and Income



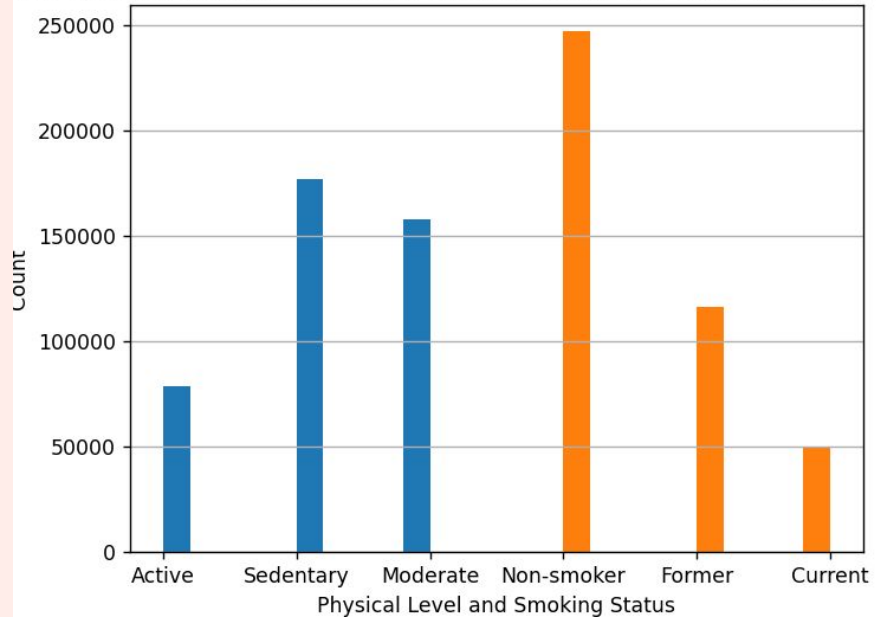
Education and Employment

1. The **ratio of getting employment** in each education level are **similar** that close to half.
2. **Bachelor's Degree** and **High School** education level have the most people getting depression.
3. **High School** education get **less income**, so they might face biggest challenge to life and that could be easily caused depression.
4. While the Associate Degree education level gets **less than 50% income** than Bachelor's Degree education level, there nearly **more than 35%** Bachelors get depression than Associate Degree.

Physical Level and Smoking Status

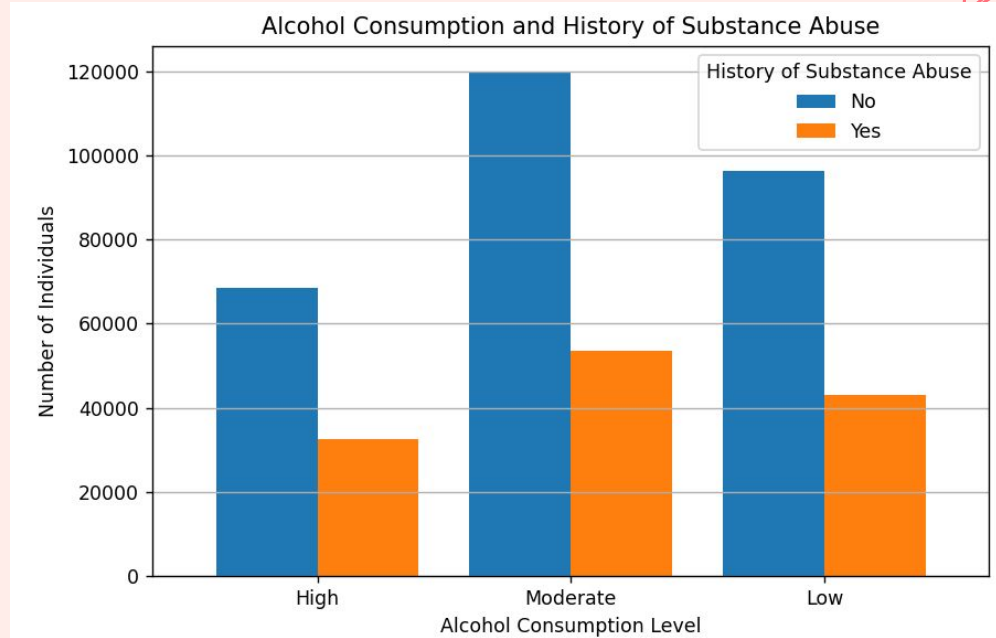
1. Depression happens less to active physical level people, so exercises can prevent people to get depression.
2. Surprisingly, the current smokers get less depression, might be a sign that smoking can help people maintain mental health by sacrificing physical health.

The Count of Physical Levels and Smoking Status in People Having Depression



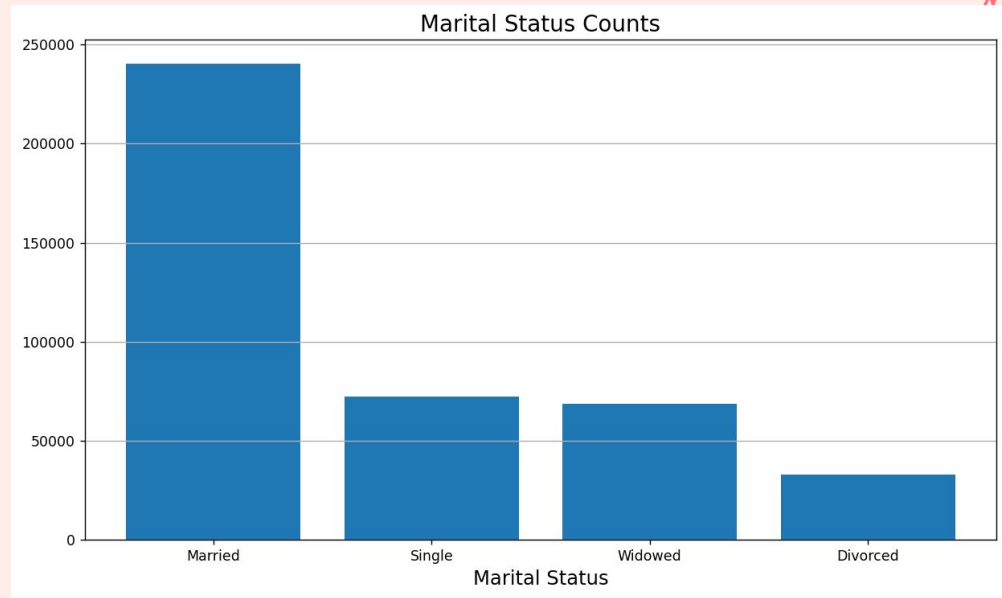
Alcohol Consumption and Substance Abuse

1. Most depression in moderate alcohol consumption level with no substance abuse history.
2. Less depression in high alcohol consumption level with substance abuse history.



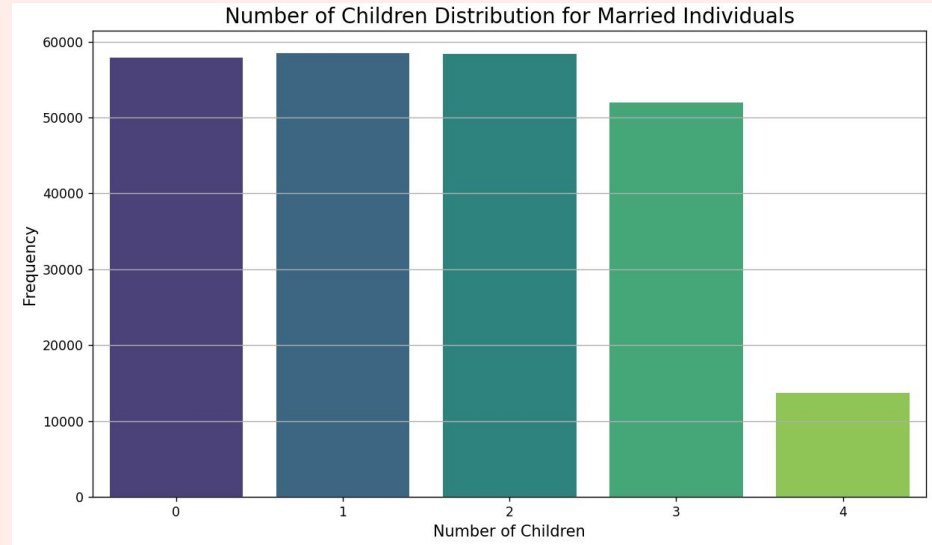
Marital Status

1. People who get married can get depression more easily than others in marital status.



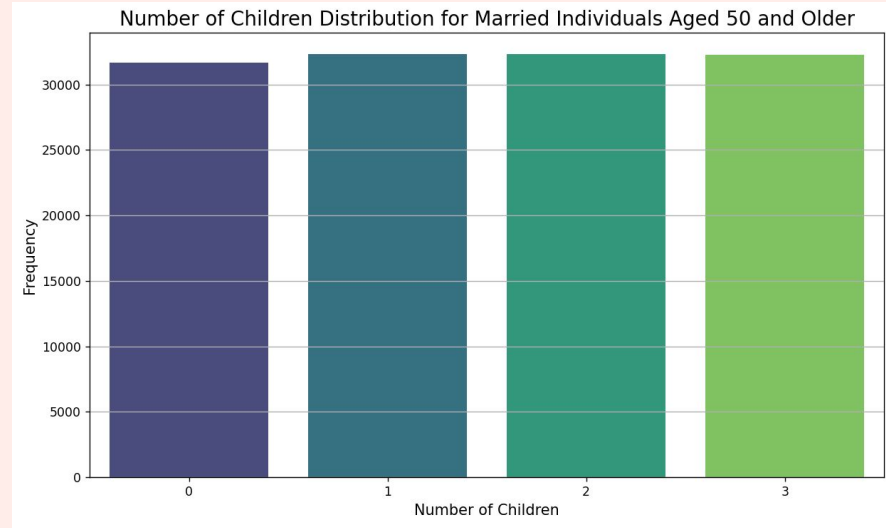
Children Number of Married People

1. Married people who have 4 children have less depression while people who have 0-3 children have similar result to depression.
2. Keep 4 children can prevent getting depression.



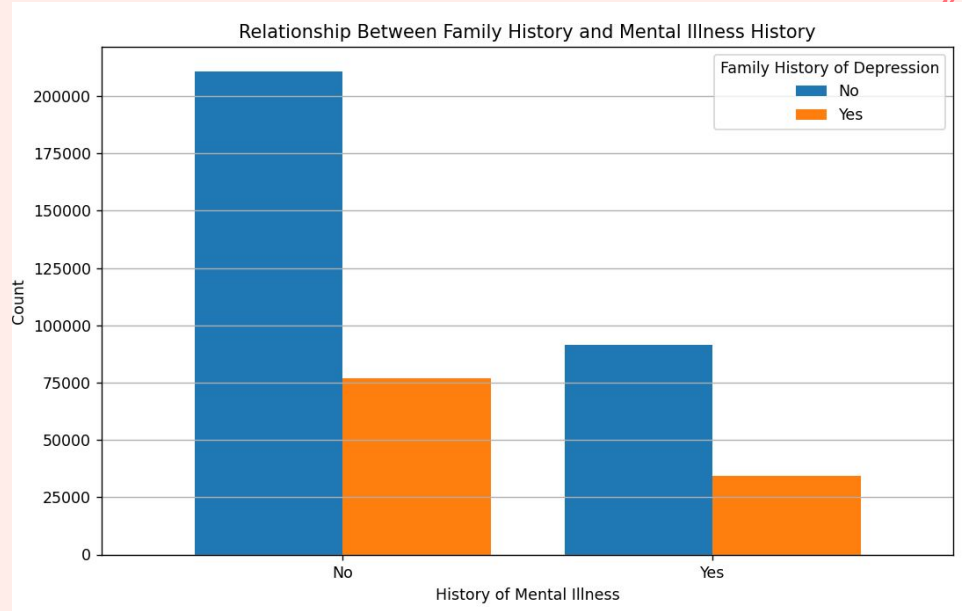
Children Number of Married People (Age ≥ 50)

1. Data have no married people with 4 children after 50 ages.
2. After 4 children grow up?
3. Small sample group?
4. No people over 50 ages have 4 children depressed?



Family History and Mental Illness History

1. People who never have mental illness history and family depression history get most depression.
2. The graph show family depression history and mental illness history are not the main reason that cause people to have depression, and vice versa.





END