Mental Health Survey with Python

import pandas as pd import matplotlib.pyplot as plt import seaborn as sns

Load the data from the CSV file

file_path = '/mnt/data/mental_health_survey.csv' data = pd.read_csv(file_path)

Data Cleaning data['self_employed'].fillna('No', inplace=True)

data['work_interfere'].fillna("Don't know", inplace=True)

below 18 and above 100)

Remove outliers in the 'Age' column (e.g., removing ages

data = data[(data['Age'] >= 18) & (data['Age'] <= 100)]

gender_replacements = {

'M': 'Male', 'Male-ish': 'Male', 'maile': 'Male', 'Cis Male': 'Male',

Replace 'Gender' categories with consistent labels

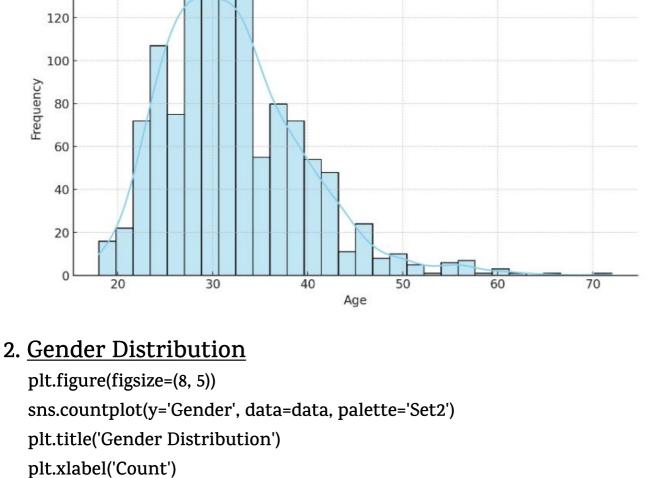
```
'something kinda male?': 'Male', 'Guy (-ish) ^_^': 'Male', 'Mal': 'Male',
'male': 'Male', 'Make': 'Male', 'Male (CIS)': 'Male', 'Man': 'Male',
'msle': 'Male', 'cis male': 'Male', 'Cis Man': 'Male',
'F': 'Female', 'f': 'Female', 'female': 'Female',
'Cis Female': 'Female', 'Woman': 'Female', 'Female', 'Female',
'Female (cis)': 'Female', 'Female (trans)': 'Female',
'Trans-female': 'Transgender', 'Trans woman': 'Transgender',
'Trans-woman': 'Transgender', 'Female or Multi-Gender Femme': 'Other',
'Androgyne': 'Other', 'non-binary': 'Other', 'genderqueer': 'Other',
'Agender': 'Other', 'Male leaning androgynous': 'Other',
'Transgender woman': 'Transgender', 'Other': 'Other',
'Neuter': 'Other', 'Fluid': 'Other', 'queer': 'Other',
'Genderfluid': 'Other'
data['Gender'].replace(gender_replacements, inplace=True)
```

1. Distribution of Age plt.figure(figsize=(10, 6))

Visualization

sns.histplot(data['Age'], kde=True, bins=30, color='skyblue') plt.title('Age Distribution of Survey Respondents')

```
plt.xlabel('Age')
plt.ylabel('Frequency')
plt.grid(True)
plt.show()
                    Age Distribution of Survey Respondents
 140
```



Gender Distribution

Count

treatment Yes Yes No

plt.grid(True) plt.show()

ostensibly male, unsure what that really means

plt.figure(figsize=(10, 6))

plt.ylabel('Count')

plt.figure(figsize=(12, 6))

plt.grid(True)

plt.show()

500

plt.ylabel('Gender')

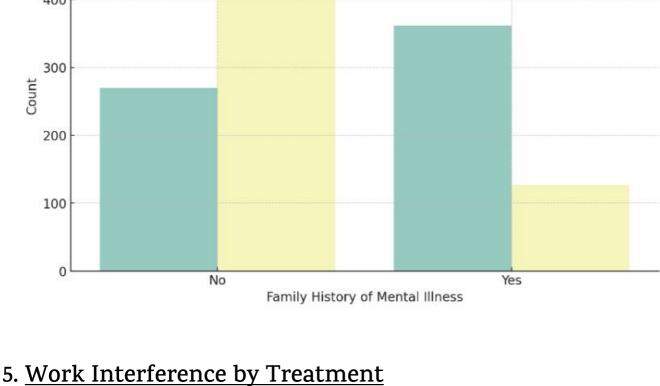
```
Female
             Transgender
           queer/she/they
                    Other
                  woman
                     Nah
                    Enby
                     fluid
             Genderqueer
                 Female
        cis-female/femme
male leaning androgynous
                     Mail
                     Malr
```



3. Mental Health Treatment by Family History

plt.title('Mental Health Treatment by Family History')

plt.xlabel('Family History of Mental Illness')



200

sns.countplot(x='family_history', hue='treatment', data=data, palette='Set3')

Mental Health Treatment by Family History



```
sns.countplot(x='work_interfere', hue='treatment', data=data, palette='Set2')
plt.title('Work Interference by Mental Health Treatment')
plt.xlabel('Work Interference')
plt.ylabel('Count')
plt.grid(True)
                   Work Interference by Mental Health Treatment
```

