Mental Health in Tech -

Project Type - Exploratory Data Analysis(EDA)

Contribution - Individual

Team Member 1 - Himanshu Arya

Project Summary -

This project explores the **Mental Health in Tech Survey (2014)** — a globally recognized dataset focused on assessing mental health prevalence, stigma, and employer support structures within the technology sector. With rising awareness around mental health in the workplace, particularly in high-pressure environments like tech companies and startups, this dataset offers an opportunity to examine real employee experiences and perceptions across regions, company sizes, and job structures.

The dataset contains responses to a detailed questionnaire that covered:

- · Mental health history and treatment-seeking behavior
- · Family history of mental illness
- · Whether respondents work in tech or non-tech companies
- · Presence of employer-provided mental health benefits
- · Perceived openness to discuss mental health with coworkers and supervisors
- · Ease of taking mental health leave
- · Observed or experienced consequences for discussing mental health
- · Comparison of attitudes toward physical vs mental health

I performed an in-depth **Exploratory Data Analysis (EDA)** using Python (Pandas, Seaborn, Matplotlib) to uncover insights and answer both **broad and specific questions**, such as:

- How do mental health concerns interfere with work productivity?
- Which factors predict whether someone seeks treatment?
- How comfortable are employees discussing mental health with their peers and supervisors?
- Does company size, remote work, or access to benefits influence mental health outcomes?
- Are there visible differences in mental health openness across countries?
- Is mental health taken as seriously as physical health in the workplace?

Throughout the analysis, I also paid close attention to data cleaning (especially age and gender normalization), feature engineering (company size grouping, binary encoding), and visual storytelling to communicate findings clearly and effectively.

This project is not just about code — it's about connecting data to real-world impact. The insights derived here can guide employers, HR departments, mental health advocates, and policy designers to **build more inclusive, transparent, and supportive work environments**.

By analyzing a real-world, socially impactful dataset, this project demonstrates the practical application of data analytics skills — from raw data to business-aligned insights — and showcases the role of data-driven decision-making in shaping healthier workplace cultures.

GitHub Link -

https://github.com/HiAr21/Mental-Health-in-Tech-EDA

Problem Statement

To explore how individuals in the tech industry perceive and manage mental health issues at work. We will analyze factors such as treatment-seeking behavior, workplace support, gender distribution, and openness to discuss mental health.

∨ Define Your Business Objective?

The primary goal of this project is to help employers, HR teams, and policy designers in the tech industry better understand:

- 1. Prevalence of mental health challenges among employees
- 2. Barriers to seeking help (stigma, fear, lack of support)
- 3. Cultural and structural factors that influence treatment, disclosure, and trust
- ${\bf 4.} \ {\bf Workplace} \ {\bf readiness-including} \ {\bf benefits, openness, manager} \ {\bf support, and anonymity}$

Ultimately, the objective is to provide data-driven recommendations to **improve mental health support systems**, **reduce stigma**, and create a workplace culture that prioritizes both physical and mental well-being.

> General Guidelines : -

v Let's Begin!

Your Data

Import Libraries

Import Libraries import pandas as pd import matplotlib.pyplot as plt import numpy as np import seaborn as sns

Dataset Loading

Load Dataset
from google.colab import files
uploaded = files.upload()

Choose Files survey.csv

• survey.csv(text/csv) - 241306 bytes, last modified: 6/27/2025 - 100% done Saving survey.csv to survey (2).csv

Dataset First View

Dataset
df = pd.read_csv('survey.csv')
Dataset First Look
df.head()

₹		Timestamp	Age	Gender	Country	state	self_employed	family_history	treatment	work_interfere	no_employees	 leave	mental_health_con
	0	8/27/2014 11:29	37	Female	United States	IL	NaN	No	Yes	Often	25-Jun	 Somewhat easy	
	1	8/27/2014 11:29	44	М	United States	IN	NaN	No	No	Rarely	More than 1000	 Don't know	
	2	8/27/2014 11:29	32	Male	Canada	NaN	NaN	No	No	Rarely	25-Jun	 Somewhat difficult	
	3	8/27/2014 11:29	31	Male	United Kingdom	NaN	NaN	Yes	Yes	Often	26-100	 Somewhat difficult	
	4	8/27/2014 11:30	31	Male	United States	TX	NaN	No	No	Never	100-500	 Don't know	

5 rows × 27 columns

Dataset Rows & Columns count
(rows,cols) = df.shape
(rows,cols)

→ (1259, 27)

Dataset Information

Dataset Info
df.info()

cclass 'pandas.core.frame.DataFrame'>
RangeIndex: 1259 entries, 0 to 1258
Data columns (total 27 columns):

Data	columns (total 27 columns	umns):	
#	Column	Non-Null Count	Dtype
0	Timestamp	1259 non-null	object
1	Age	1259 non-null	int64
2	Gender	1259 non-null	object
3	Country	1259 non-null	object
4	state	744 non-null	object
5	self_employed	1241 non-null	object
6	family_history	1259 non-null	object
7	treatment	1259 non-null	object
8	work_interfere	995 non-null	object
9	no_employees	1259 non-null	object
10	remote_work	1259 non-null	object
11	tech_company	1259 non-null	object
12	benefits	1259 non-null	object
13	care_options	1259 non-null	object
14	wellness_program	1259 non-null	object

```
15
    seek help
                                 1259 non-null
                                                 object
                                 1259 non-null
16
    anonymity
                                                 object
17
    leave
                                 1259 non-null
                                                 object
    {\tt mental\_health\_consequence}
                                 1259 non-null
19
    phys_health_consequence
                                1259 non-null
                                                 object
20
    coworkers
                                 1259 non-null
                                                 object
                                 1259 non-null
    supervisor
                                                 object
    mental_health_interview
                                 1259 non-null
                                                 object
23
    phys_health_interview
                                 1259 non-null
24
    mental_vs_physical
                                 1259 non-null
                                                 object
25
    obs_consequence
                                 1259 non-null
                                                 object
object
                                 164 non-null
26
    comments
dtypes: int64(1), object(26)
memory usage: 265.7+ KB
```

✓ Missing Values/Null Values

Missing Values/Null Values Count
df.isnull().sum().sort_values(ascending=False).head(10)

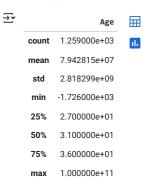


Fill key categorical blanks
df['self_employed'] = df['self_employed'].fillna('No')
df['work_interfere'] = df['work_interfere'].fillna("Don't know")

2. Understanding Your Variables

Dataset Columns
df.columns

Dataset Describe
df.describe()



Check Unique Values for each variable.

```
# Check Unique Values for each variable.
df.nunique()
```

0 Timestamp 884 Age 53 Gender 46 48 Country state 45 self_employed 2 family_history treatment work_interfere no_employees 6 remote_work 2 tech_company benefits 3 care_options 3 3 wellness_program seek_help 3 3 anonymity 5 leave mental_health_consequence 3 phys_health_consequence 3 3 coworkers 3 supervisor mental_health_interview 3 phys_health_interview 3 3 mental_vs_physical 2 obs_consequence

dtype: int64

√ 3. Data Wrangling

comments

160

→ Data Wrangling Code

_ _ count

	Gender
Male	612
male	206
Female	122
M	116
female	62
F	38
m	34
f	15
Make	4
Male	3
Woman	3
Female	2
Female (trans)	2
Man	2
Cis Male	2
something kinda male?	1
Cis Female	1
Trans-female	1
Male-ish	1
woman	1
non-binary	1
Enby	1
Nah	1
fluid	1
queer/she/they	1
Male (CIS)	1
Mal	1
Agender	1
Androgyne	1
Genderqueer	1
male leaning androgynous	1
cis-female/femme	1
Trans woman	1
msle	1
Neuter	1
queer	1
Female (cis)	1
Mail	1
cis male	1
Malr	1
femail	1
Cis Man	1
ostensibly male, unsure what that really	means 1
dtype: int64	
ean Gender Column	
<pre>clean_gender(g): str(g).strip().lower()</pre>	
'female' in g or g in ['f','woman' return 'Female']:
if 'male' in g or g in ['m','man']:	
return 'Male' se:	
noturn 'Othon'	

```
# Clean Gender Column
def clean_gender(g):
    g=str(g).strip().lower()
    if 'female' in g or g in ['f','woman']:
        return 'Female'
    elif 'male' in g or g in ['m','man']:
        return 'Male'
    else:
        return 'Other'

df.loc[:, 'Gender'] = df['Gender'].fillna('Other').apply(clean_gender)
```

```
df['Gender'].value_counts()
<del>_</del>
               count
      Gender
        Male
                  981
      Female
                  249
       Other
                   21
     dtype: int64
# Datatypes
df['Timestamp'] = pd.to_datetime(df['Timestamp'])
/tmp/ipython-input-135-1846066471.py:2: SettingWithCopyWarning:
      A value is trying to be set on a copy of a slice from a DataFrame.
     Try using .loc[row_indexer,col_indexer] = value instead
     See the caveats in the documentation: <a href="https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy">https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy</a> df['Timestamp'] = pd.to_datetime(df['Timestamp'])
# Drop irrelevant columns
df_country = df.copy()
df_country.drop(columns=['Timestamp','comments','state'],inplace=True)
# Number of employees column
df_country['no_employees'].value_counts()
count
        no_employees
          25-Jun
                         289
          26-100
                         288
      More than 1000
                         281
          100-500
                         175
           5-Jan
                         158
         500-1000
                           60
     dtype: int64
# Simplify company size
{\tt def clean\_no\_employees(x):}
    if x in ['5-Jan']:
         return '1-5'
    elif x in ['25-Jun']:
        return '6-25'
    else:
         return x
df_country['no_employees'] = df_country['no_employees'].apply(clean_no_employees)
# Simplify company size
def simplify_company_size(x):
    if x in ['1-5', '6-25']:
        return 'Small'
    elif x in ['26-100', '100-500']:
        return 'Medium'
    else:
         return 'Large'
df_country['company_size'] = df_country['no_employees'].apply(simplify_company_size)
df_country.head()
\overline{\rightarrow}
          Age Gender Country self_employed family_history treatment work_interfere no_employees remote_work tech_company ...
                                                                                                                                                            leave mental h
                          United
                                                                                                                                                        Somewhat
          37 Female
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           44
                  Male
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```

Often

26-100

100-500

Nο

Yes

Somewhat

difficult Don't

Yes

Yes

4	31	Male	United States	No	No	No	Never
5 rov	vs × 25	columns					

Yes

Yes

No

United

Kingdom

Male

3 31

4. Data Vizualization, Storytelling & Experimenting with charts: Understand the relationships between variables

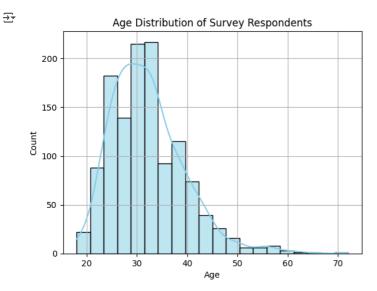
df_country.nunique()

45 46 47 48 48 48 48 48 48 48 48 48 48 48 48 48
46 46 47 48 48 48 48 48 48 48 48 48
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→ 1.Demographic Analysis

Survey Response Analysis


```
# 1 - Age Distribution
sns.histplot(df_country['Age'], bins=20, kde=True, color='skyblue')
plt.title('Age Distribution of Survey Respondents')
plt.xlabel('Age')
plt.ylabel('Count')
plt.grid(True)
plt.show()
```



Why this chart?

To understand the dominant age group among respondents and potential generational patterns in mental health behavior.

Insights:

- Most respondents are aged between 20-35, the early-to-mid-career stage in tech.
- This age group is more likely to experience high pressure and rapid change.

Business Impact:

Wellness programs and messaging should be tailored for this core demographic.

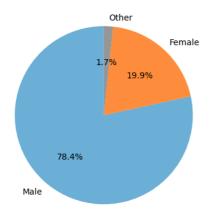
∨ Chart - 2 : Gender Breakdown

2 - Gender Breakdown

```
df['Gender'].value_counts().plot.pie(autopct='%1.1f%%', startangle=90, colors=['#6baed6','#fd8d3c','#969696'])
plt.title('Gender Distribution')
plt.ylabel('')
plt.show()
```



Gender Distribution



Why this chart?

To assess representation and evaluate gender-based mental health trends later.

Insights:

- Survey is heavily male-dominated, reflective of the tech industry at the time.
- Presence of "Other" gender category supports inclusive data collection.

Business Impact:

Gender-based analysis is valid and could reveal unique patterns.

Chart - 3 : Country-Wise

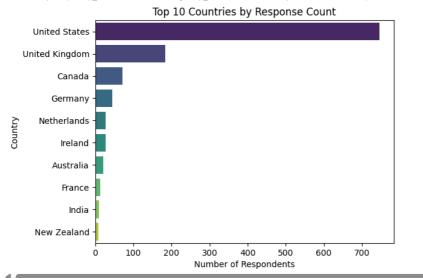
3 - Country Wise response count

top_countries = df_country['Country'].value_counts().head(10)

```
sns.barplot(x=top_countries.values, y=top_countries.index, palette='viridis')
plt.title("Top 10 Countries by Response Count")
plt.xlabel("Number of Respondents")
plt.ylabel("Country")
plt.show()
```

/tmp/ipython-input-145-407372444.py:5: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `y` variable to `hue` and set `legend=False` for sns.barplot(x=top_countries.values, y=top_countries.index, palette='viridis')



Why this chart?

To see which countries dominate the sample and whether cross-country comparisons will be meaningful.

Insights

- Majority of responses are from the United States, followed by UK, Canada, and Germany.
- Country-level analysis will be reliable for these regions only.

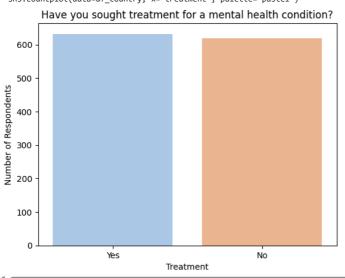
2. Mental Health Experience

∨ Chart - 4 : Treatment Count

```
# 4 - Treatment Count
sns.countplot(data=df_country, x='treatment', palette='pastel')
plt.title("Have you sought treatment for a mental health condition?")
plt.xlabel("Treatment")
plt.ylabel("Number of Respondents")
plt.show()
```

/tmp/ipython-input-146-152995800.py:2: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `x` variable to `hue` and set `legend=False` for sns.countplot(data=df_country, x='treatment', palette='pastel')



Why this chart?

To assess how many people have actively sought help for mental health issues.

Insiahts

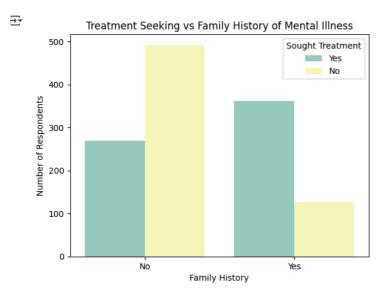
- · A significant number of respondents have received treatment, suggesting high awareness or prevalence.
- Still, many have not sought treatment, possibly due to stigma, cost, or employer barriers.

Business Impact

Companies must address structural and cultural blocks to seeking help.

Chart - 5 : Treatment vs Family History

```
# 5 - Treatment vs Family history
sns.countplot(data=df_country, x='family_history', hue='treatment', palette='Set3')
plt.title("Treatment Seeking vs Family History of Mental Illness")
plt.xlabel("Family History")
plt.ylabel("Number of Respondents")
plt.legend(title="Sought Treatment")
plt.show()
```



Why this chart?

To explore if individuals with a family history are more likely to seek help.

Insights:

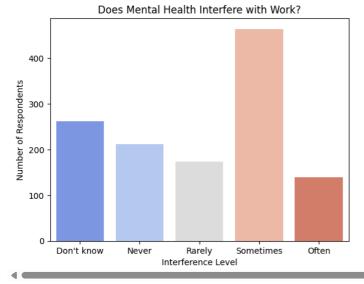
- Respondents with a family history of mental illness are more likely to seek treatment.
- This may reflect greater awareness or personal exposure to mental health systems.

Business Impact:

Mental health literacy and awareness campaigns can be targeted at those without family exposure.

✓ Chart - 6 : Work Interference

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `x` variable to `hue` and set `legend=False` for sns.countplot(data=df_country, x='work_interfere', order=["Don't know",'Never', 'Rarely', 'Sometimes', 'Often'], palette='coolwarm')



Why this chart?

To understand the impact of mental health on daily work performance.

Insights:

- A large number report "Sometimes" or "Often" interference, indicating productivity loss.
- Very few report "Never" highlighting how common mental health struggles are in tech.

Business Impact:

Direct impact on productivity. Highlights need for flexible leave, counseling, or workload adjustments.

3. Workplace Support & Openness

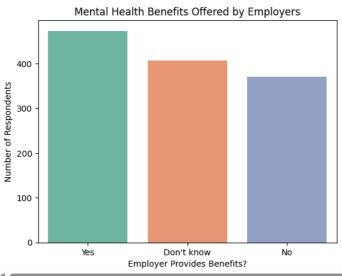
Chart - 7: mental health benefits

7 - Does your company provide mental health benefits?

```
\verb|sns.countplot(data=df_country, x='benefits', palette='Set2')|\\
plt.title("Mental Health Benefits Offered by Employers")
plt.xlabel("Employer Provides Benefits?")
plt.ylabel("Number of Respondents")
plt.show()
```

/tmp/ipython-input-150-2378328457.py:3: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `x` variable to `hue` and set `legend=False` for sns.countplot(data=df_country, x='benefits', palette='Set2')



Why this chart?

To assess whether companies offer mental health coverage and how widespread that support is.

Insights:

- Many respondents answered "Don't know", suggesting lack of communication or visibility.
- A large portion of companies still do not offer direct benefits.

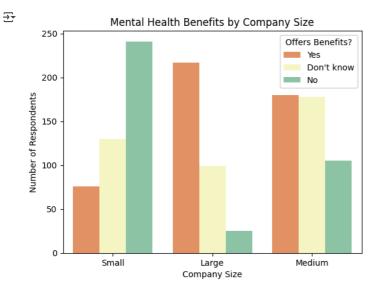
Business Impact:

Improved communication of available benefits could increase their utilization and employee trust.

Chart - 8 : company size vs benefits

```
# 8 - Company Size vs Benefits Offered
```

```
sns.countplot(data=df_country, x='company_size', hue='benefits', palette='Spectral')
plt.title("Mental Health Benefits by Company Size")
plt.xlabel("Company Size")
plt.ylabel("Number of Respondents")
plt.legend(title="Offers Benefits?")
plt.show()
```



Why this chart?

To analyze if larger companies are more likely to offer mental health support.

Insights:

- Larger companies (500+) are more likely to provide mental health benefits.
- Smaller companies are either unaware, less equipped, or less invested in mental wellness policies.

Business Impact:

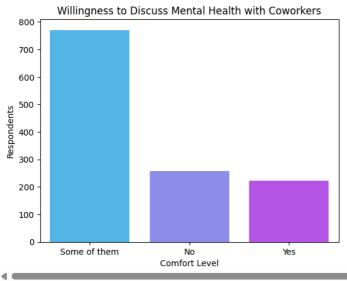
Startups and small tech teams may need standardized frameworks or shared resources to catch up.

∨ Chart - 9 : general talk

```
# 9 - Openness : Talking to Coworkers
sns.countplot(data=df_country, x='coworkers', palette='cool')
plt.title("Willingness to Discuss Mental Health with Coworkers")
plt.xlabel("Comfort Level")
plt.ylabel("Respondents")
plt.show()
```

/tmp/ipython-input-152-1557361383.py:3: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `x` variable to `hue` and set `legend=False` for sns.countplot(data=df_country, x='coworkers', palette='cool')



Why this chart?

To understand how open employees are to discussing mental health with peers.

Insights:

• The response is fairly balanced — not everyone is comfortable, indicating stigma or fear of judgment.

Companies must work on normalizing open discussion, especially through mental health awareness campaigns and leadership modeling.

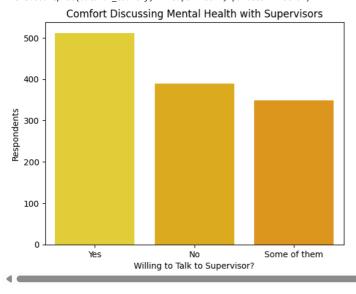
Chart - 10: talk with supervisors

```
# 10 - Talking to Supervisors
```

```
sns.countplot(data=df_country, x='supervisor', palette='Wistia')
plt.title("Comfort Discussing Mental Health with Supervisors")
plt.xlabel("Willing to Talk to Supervisor?")
plt.ylabel("Respondents")
plt.show()
```

/tmp/ipython-input-153-2651794747.py:3: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `x` variable to `hue` and set `legend=False` for sns.countplot(data=df_country, x='supervisor', palette='Wistia')



Why this chart?

Manager support plays a critical role in encouraging disclosure and accommodation.

Insights:

- Fewer respondents feel comfortable talking to supervisors than to coworkers.
- Supervisor attitudes directly affect willingness to seek help.

Business Impact:

Train managers to respond empathetically and confidentially to mental health disclosures.

```
# 10b - Talking to Supervisors - company size wise
sns.countplot(data=df_country, x='supervisor',hue='company_size', palette='Wistia')
plt.title("Comfort Discussing Mental Health with Supervisors")
plt.xlabel("Willing to Talk to Supervisor?")
plt.ylabel("Respondents")
plt.show()
```

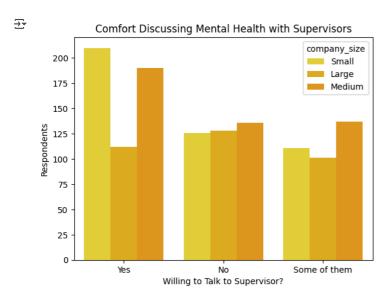


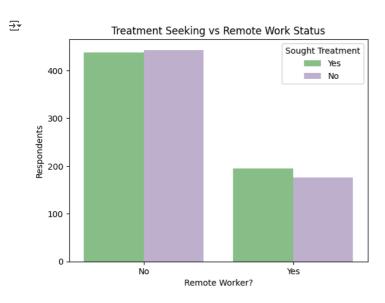
Chart - 11 : Remote work vs Treatment seeking

```
# 11 - Remote Work vs Treatment Seeking
sns.countplot(data=df_country, x='remote_work', hue='treatment', palette='Accent')
plt.title("Treatment Seeking vs Remote Work Status")
```

plt.xlabel("Remote Worker?")
plt.ylabel("Respondents")

plt.legend(title="Sought Treatment")

plt.show()



Why this chart?

To check if remote employees are more or less likely to seek treatment.

Insights:

• No strong visible pattern, but some evidence that remote workers may be slightly more open to seeking help.

Business Impact:

Companies should ensure remote workers are equally covered and informed about available resources.

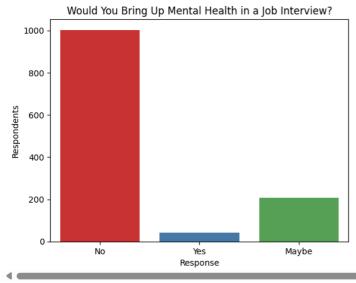
Chart - 12 : Talk in an interview

```
# 12 - Would you bring up a mental health issue in an interview?
```

```
sns.countplot(data=df_country, x='mental_health_interview', palette='Set1')
plt.title("Would You Bring Up Mental Health in a Job Interview?")
plt.xlabel("Response")
plt.ylabel("Respondents")
plt.show()
```

/tmp/ipython-input-156-1886967927.py:3: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `x` variable to `hue` and set `legend=False` for sns.countplot(data=df_country, x='mental_health_interview', palette='Set1')



Why this chart?

To see how safe people feel discussing mental health when applying for a job.

Insights:

- Majority are **unwilling** to bring it up, even if it affects their work.
- Indicates a strong perceived stigma or risk of discrimination during hiring.

Business Impact:

Companies must make it clear through HR and public communication that mental health history won't be used unfairly in selection.

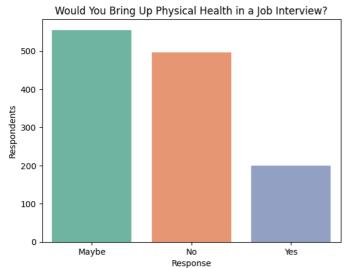
∨ Chart - 13 : Physical vs Mental Health

13 - Would you bring up a physical health issue in an interview?

```
sns.countplot(data=df_country, x='phys_health_interview', palette='Set2')
plt.title("Would You Bring Up Physical Health in a Job Interview?")
plt.xlabel("Response")
plt.ylabel("Respondents")
plt.show()
```

/tmp/ipython-input-157-1384571048.py:3: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `x` variable to `hue` and set `legend=False` for sns.countplot(data=df_country, x='phys_health_interview', palette='Set2')



Why this chart?

To compare perceptions around mental vs physical health disclosure.

Insights:

• More people are open to disclosing physical health conditions, confirming a double standard in how health is treated.

Bridging the gap between mental and physical health policies can build trust and reduce fear.

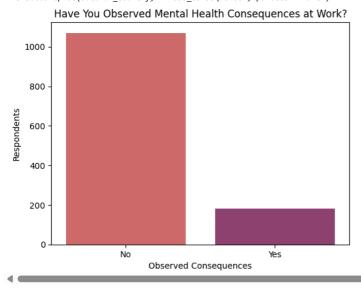
Chart - 14: Coorporate Consequences

- Have you observed negative consequences for others with mental health conditions?

```
sns.countplot(data=df_country, x='obs_consequence', palette='flare')
plt.title("Have You Observed Mental Health Consequences at Work?")
plt.xlabel("Observed Consequences")
plt.vlabel("Respondents")
plt.show()
```

/tmp/ipython-input-158-1288831179.py:3: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `x` variable to `hue` and set `legend=False` for sns.countplot(data=df_country, x='obs_consequence', palette='flare')



Why this chart?

To understand if stigma or punishment for mental health issues exists in the workplace.

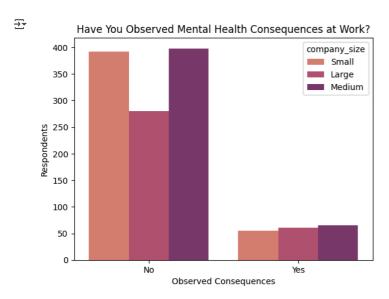
Insights:

- A few number of respondents have witnessed negative outcomes for others.
- Shows that even when formal policies exist, culture may not align.

Business Impact:

Cultural shifts and leadership modeling are essential to back up policy with practice.

```
sns.countplot(data=df_country, x='obs_consequence',hue='company_size', palette='flare')
plt.title("Have You Observed Mental Health Consequences at Work?")
plt.xlabel("Observed Consequences")
plt.ylabel("Respondents")
plt.show()
```



→ Others

Chart - 15 - Correlation Heatmap

Correlation Heatmap visualization code

```
binary_df = df_country.copy()
binary_df['treatment'] = binary_df['treatment'].map({'Yes': 1, 'No': 0})
binary_df['family_history'] = binary_df['family_history'].map({'Yes': 1, 'No': 0})
binary_df['remote_work'] = binary_df['remote_work'].map({'Yes': 1, 'No': 0})
sns.heatmap(binary_df[['treatment', 'family_history', 'remote_work']].corr(), annot=True, cmap='coolwarm')
plt.title("Correlation Heatmap (Binary Fields)")
plt.show()
```

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