

File Edit View Insert Runtime Tools Help Last edited on 3 January

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1 # import pandas as pd
2 # import random
3
4 # # Sample Data
5 # data = {
6 #     'Timestamp': ['12/25/2023 13:32:10', '12/25/2023 14:16:04', '12/25/2023 14:16:10', '12/25/2023 14:22:24', '12/25/2023 14:38:11', '12/25/2023 14:47:4
7 #     'Name': ['Most. Asifa Asrafi Diba', 'Faria Ashrafi Lia', 'Sakib', 'Shefayen Islam', 'Abid Anik', 'Salmani'],
8 #     'University': ['Daffodil International University', 'North south university', 'United International University', 'Seneca College', 'Brac University'
9 #     'Age Group': ['22-25', '22-25', '22-25', '26-30', '26-30'],
10 #     'Gender': ['Female', 'Female', 'Male', 'Male', 'Male'],
11 #     'Diagnosed with Depression': ['Yes', 'Maybe', 'Yes', 'Yes', 'Yes', 'No'],
12 #     'Frequency of Depression Symptoms': [3, 3, 5, 2, 5, 3],
13 #     'Professional Help for Depression': ['Yes', 'Constantly', 'No', 'Frequently', 'Constantly', 'Frequently'],
14 #     'stressed due to academic workload': ['Frequently', 'Constantly', 'Sometimes', 'Frequently', 'Constantly', 'Frequently'],
15 #     'stress-relief activities': ['No', 'No', 'No', 'Yes', 'No', 'Yes'],
16 #     'stress-management strategies': [2, 3, 4, 2, 3, 5],
17 #     'pressure to excel academically': ['No', 'Yes', 'No', 'Yes', 'Yes', 'Yes'],
18 #     'how do you cope with academic pressure': [2, 2, 4, 3, 5, 3],
19 #     'sought academic counseling or support': ['No', 'Yes', 'No', 'No', 'Yes'],
20 #     'engaged in self-harming behaviors': ['Yes', 'No', 'Yes', 'No', 'Yes'],
21 #     'sought professional help or counseling for self-harm': ['Yes', 'No', 'No', 'Yes', 'Yes'],
22 #     'On a scale of 1 to 5, how comfortable are you discussing your mental health issues with others?': [1, 2, 3, 4, 5],
23 #     'technology (e.g., NLP and HCI) can positively impact mental wellness': ['Maybe', 'Yes', 'No', 'Yes', 'Maybe'],
24 #     'technology-based solutions to manage your mental health': ['Maybe', 'Yes', 'No', 'Yes', 'No'],
25 #     'comfortable discussing mental health with friends or family': ['Yes', 'No', 'Sometimes', 'Yes', 'Sometimes'],
26 #     'experienced stigma or discrimination related to mental health issues': ['Yes', 'No', 'No', 'No', 'Yes'],
27 #     'participating in workshops or programs related to stress management and mental wellness': ['Yes', 'Maybe', 'No', 'Yes', 'Yes'],
28 #     'access mental health resources and information': ['In-person workshops and counseling', 'Mobile apps or online platforms', 'Both'],
29 #     'rate the importance of the following factors in promoting mental wellness at your educational institution (1 = Not Important, 5 = Extremely Important'
30 #     'Accessible counseling services': ['Not Important', 'Somewhat Important', 'Neutral', 'Important', 'Extremely Important'],
31 #     'Peer support groups': ['Not Important', 'Somewhat Important', 'Neutral', 'Important', 'Extremely Important'],
32 #     'Mental health awareness campaigns': ['Not Important', 'Somewhat Important', 'Neutral', 'Important', 'Extremely Important'],
33 #     'How effective do you find talking to someone (friend, family, counselor) about your stress and worries?': ['1', '2', '3', '4', '5'],
34 #     'How much does a lack of proper sleep contribute to your overall stress levels?': ['1', '2', '3', '4', '5'],
35 #     'engage in activities or hobbies as a form of stress relief': ['Rarely', 'Several times a week', 'Never'],
36 #     'primary method of coping with academic or personal stress': ['Talking to friends or family', 'Engaging in hobbies or leisure activities', 'Seeking p
37 #     # ... other columns ...
38 # }
39
40 # df = pd.DataFrame(data)
41
42 # def combine_responses(response1, response2, combine_prob=0.1):
43 #     if random.uniform(0, 1) < combine_prob:
44 #         return f"{response1} & {response2}"
45 #     return response1
46
47 # # Augment the dataset by combining responses for all columns
48 # for column in df.columns:
49 #     if column not in ['Timestamp', 'Name']: # Exclude non-combinable columns
50 #         df[column + '_Combined'] = df[column].combine(
51 #             df[column].shift(-1),
52 #             lambda response1, response2: combine_responses(response1, response2)
53 #         )
54
55 # # Drop the last row since it does not have a pair for combination
56 # df = df.drop(df.index[-1])
57
58 # # Display the original and augmented data
59 # print("Original Data:")
60 # print(df)
61
```

ValueError Traceback (most recent call last)

```

<ipython-input-8-d2f34c5de63c> in <cell line: 40>()
    38 }
    39
--> 40 df = pd.DataFrame(data)
    41
    42 def combine_responses(response1, response2, combine_prob=0.1):

```

ValueError: All arrays must be of the same length

```

[ ] 1 import pandas as pd
2 import random
3
4 # Load the dataset from a CSV file
5 file_path = "/content/edited_survey_data.csv"
6 df = pd.read_csv(file_path)
7
8 def combine_responses(response1, response2, combine_prob=0.1):
9     response1_str = str(response1)
10    response2_str = str(response2)
11
```

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12     if random.uniform(0, 1) < combine_prob:
13         return f"{response1_str} & {response2_str}"
14     return response1_str
15
16 # Augment the dataset by combining responses for all columns
17 augmented_rows = []
18 for i in range(len(df) - 1):
19     current_row = df.iloc[i]
20     next_row = df.iloc[i + 1]
21
22     augmented_row = current_row.copy()
23     for column in df.columns:
24         if column not in ['Timestamp', 'Name']: # Exclude non-combinable columns
25             augmented_row[column] = combine_responses(current_row[column], next_row[column])
26
27     augmented_rows.append(augmented_row)
28
29 # Combine the original and augmented data
30 augmented_df = pd.concat([df, pd.DataFrame(augmented_rows)], ignore_index=True)
31
32 # Display the augmented data
33 print("Augmented Data:")
34 print(augmented_df)
35
36 # Save the augmented data to a new CSV file
37 augmented_df.to_csv("augmented_new_data.csv", index=False)
38

```

Augmented Data:

	Age	Gender diagnosed with depression \
0	22-25	Female Yes
1	22-25	Female Maybe
2	22-25	Male Yes
3	22-25	Male Yes
4	26-30	Male Yes
..
792	22-25	Male No
793	22-25	Male No & Yes
794	18-21 & Under 18	Female & Female Yes
795	Under 18	Female Yes
796	Under 18 & 22-25	Prefer not to say Yes

	symptoms of depression frequency \
0	3
1	3
2	5
3	2
4	5
..	...
792	2
793	1 & 5
794	5
795	5
796	4

	professional help or counseling for depression \
0	Yes
1	Yes
2	No
3	Yes
4	Yes
..	...
792	No
793	No
794	Yes
795	Yes
796	Yes

	feel stressed due to academic workload engage in stress-relief activities \
0	Frequently No
1	Constantly No
2	Sometimes No
3	Frequently Yes
4	Constantly No
..	...
792	Sometimes & Constantly Yes
793	Constantly No
794	Constantly Yes
795	Constantly No
796	Frequently Yes

	effectiveness of stress-management strategies \
0	2
1	3
2	4
3	2

```

[ ] 1 import pandas as pd
2
3 # Load the augmented dataset
4 augmented_file_path = "/content/augmented_survey_dataV2.csv" # Change this to the actual path of your augmented CSV file
5 augmented_df = pd.read_csv(augmented_file_path)
6
7 # Print the list of columns
8 print("How frequently do you engage in activities or hobbies as a form of stress relief?")
9 print(augmented_df.columns)
10
11 # Check the count and percentage of entries for each gender
12 gender_counts = augmented_df['How frequently do you engage in activities or hobbies as a form of stress relief?'].value_counts()
13 gender_percentages = augmented_df['How frequently do you engage in activities or hobbies as a form of stress relief?'].value_counts(normalize=True) * 100
14
15 # Display the counts and percentages
16 print("\nGender Counts:")
17 print(gender_counts)
18
19 print("\nHow frequently do you engage in activities or hobbies as a form of stress relief?")
20 print(gender_percentages)
21

```

```
    "How frequently do you engage in activities or hobbies as a form of stress relief?"  
Index(['Timestamp', 'Name (Optional)',  
       'What is your Educational Institution\'s name? (Optional)',  
       'Age: Please select your age group.',  
       'Gender: Please specify your gender identity.',  
       'Have you ever been diagnosed with depression?',  
       'On a scale of 1 to 5, how often do you experience symptoms of depression (e.g., sadness, loss of interest)?',  
       'Have you sought professional help or counseling for depression?',  
       'How often do you feel stressed due to academic workload?',  
       'Do you engage in stress-relief activities (e.g., meditation, exercise)?',  
       'On a scale of 1 to 5, how effective are your stress-management strategies?',  
       'Do you feel pressure to excel academically?',  
       'On a scale of 1 to 5, how do you cope with academic pressure?',  
       'Have you ever sought academic counseling or support?',  
       'Have you ever engaged in self-harming behaviors?',  
       'If you answered "Yes" to the previous question, please briefly describe the reasons or triggers for self-harm. ',  
       'Have you sought professional help or counseling for self-harm?',  
       'Do you experience other mental health issues not mentioned above? Please specify',  
       'On a scale of 1 to 5, how comfortable are you discussing your mental health issues with others?',  
       'Do you believe that technology (e.g., NLP and HCI) can positively impact mental wellness?',  
       'Would you be open to using technology-based solutions to manage your mental health?',  
       'Are you comfortable discussing your mental health with friends or family?',  
       'Have you ever experienced stigma or discrimination related to your mental health issues?',  
       'What type of mental health support or services do you feel are lacking at your educational institution? (Optional)',  
       'Would you be interested in participating in workshops or programs related to stress management and mental wellness?',  
       'How would you prefer to access mental health resources and information?',  
       'Please rate the importance of the following factors in promoting mental wellness at your educational institution (1 = Not Important, 5 = Extremely Important)',  
       'Accessible counseling services', 'Supportive academic environment',  
       'Peer support groups', 'Mental health awareness campaigns',  
       'Which stress-relief techniques or activities do you find most effective? (Select all that apply)',  
       'How effective do you find talking to someone (friend, family, counselor) about your stress and worries?',  
       'How much does a lack of proper sleep contribute to your overall stress levels?',  
       '"How frequently do you engage in activities or hobbies as a form of stress relief?"',  
       'What is your primary method of coping with academic or personal stress?'],  
      dtype='object')
```

Gender Counts:

Occasionally	155
Rarely	148
Several times a week	88
Never	37
Daily	37
Occasionally	1
Never & Never	1
Rarely	1
Rarely & Daily	1
Daily & Rarely	1
Rarely & Never	1

Name: "How frequently do you engage in activities or hobbies as a form of stress relief?", dtype: int64

How frequently do you engage in activities or hobbies as a form of stress relief?

Occasionally	32.908705
Rarely	31.422505
Several times a week	18.683652
Never	7.855626
Daily	7.855626
Occasionally	0.212314
Never & Never	0.212314