CAREER ASPIRATION ANALYSIS

DATA VISUALIZATION

```
import pandas as pd
import numpy as np
import plotly.express as px
import plotly.graph_objects as go
```

The read.csv() function is used to read data from CSV (Comma Separated Values) files into a DataFrame.

```
data = pd.read_csv("Career Aspirations  Survey Analysis.csv")
print(data.head())
```

```
  Your Current Country.  Your Current Zip Code / Pin Code Your Gender
\
0                 India                              273005        Male

1                 India                              851129        Male

2                 India                              123106      Female

3                 India                              834003        Male

4                 India                              301019      Female


  Which of the below factors influence the most about your career
aspirations ?  \
0       People who have changed the world for better

1       People who have changed the world for better

2                         Social Media like LinkedIn

3      People from my circle, but not family members

4             Influencers who had successful careers


  Would you definitely pursue a Higher Education / Post Graduation
outside of India ? If only you have to self sponsor it.  \
0                       Yes, I will earn and do that

1      No, But if someone could bare the cost I will
```

```
2                        Yes, I will earn and do that

3      No, But if someone could bare the cost I will

4      No, But if someone could bare the cost I will


  How likely is that you will work for one employer for 3 years or
more ?  \
0  This will be hard to do, but if it is the righ...

1  This will be hard to do, but if it is the righ...

2                      Will work for 3 years or more

3  This will be hard to do, but if it is the righ...

4                      Will work for 3 years or more


  Would you work for a company whose mission is not clearly defined
and publicly posted.  \
0                                                    No

1                                                    No

2                                                   Yes

3                                                    No

4                                                    No


  How likely would you work for a company whose mission is misaligned
with their public actions or even their product ?  \
0                             Will NOT work for them

1                             Will NOT work for them

2                                 Will work for them

3                             Will NOT work for them

4                             Will NOT work for them


   How likely would you work for a company whose mission is not
bringing social impact ?  \
0                                                     4

1                                                     1
```

```
2                                                    7

3                                                    6

4                                                    5


  What is the most preferred working environment for you.  \
0       Fully Remote with No option to visit offices
1  Fully Remote with Options to travel as and whe...
2  Hybrid Working Environment with less than 15 d...
3  Hybrid Working Environment with less than 15 d...
4  Fully Remote with Options to travel as and whe...

   Which of the below Employers would you work with.  \
0  Employer who rewards learning and enables that...
1  Employer who pushes your limits by enabling an...
2  Employer who pushes your limits by enabling an...
3  Employer who pushes your limits by enabling an...
4  Employer who appreciates learning and enables ...

  Which type of learning environment that you are most likely to work
in ?  \
0  Instructor or Expert Learning Programs, Trial ...

1  Self Paced Learning Portals, Instructor or Exp...

2  Self Paced Learning Portals, Trial and error b...

3  Instructor or Expert Learning Programs, Trial ...

4  Self Paced Learning Portals, Learning by obser...


  Which of the below careers looks close to your Aspirational job ?  \
0  Business Operations in any organization, Build...
1  Business Operations in any organization, Build...
2  Manage and drive End-to-End Projects or Produc...
3  Business Operations in any organization, Manag...
4  Teaching in any of the institutes/online or Of...

  What type of Manager would you work without looking into your
watch ?  \
0  Manager who explains what is expected, sets a ...

1  Manager who explains what is expected, sets a ...

2  Manager who explains what is expected, sets a ...

3  Manager who explains what is expected, sets a ...
```

```
4  Manager who explains what is expected, sets a ...


  Which of the following setup you would like to work ?
0  Work alone, Work with 2 to 3 people in my team...
1                 Work with 5 to 6 people in my team
2  Work with 2 to 3 people in my team, Work with ...
3                 Work with 2 to 3 people in my team
4  Work with 2 to 3 people in my team, Work with ...
```

A pandas DataFrame property called data.columns yields an Index object with the DataFrame's column labels in it. It essentially provides the names of every column in the DataFrame.

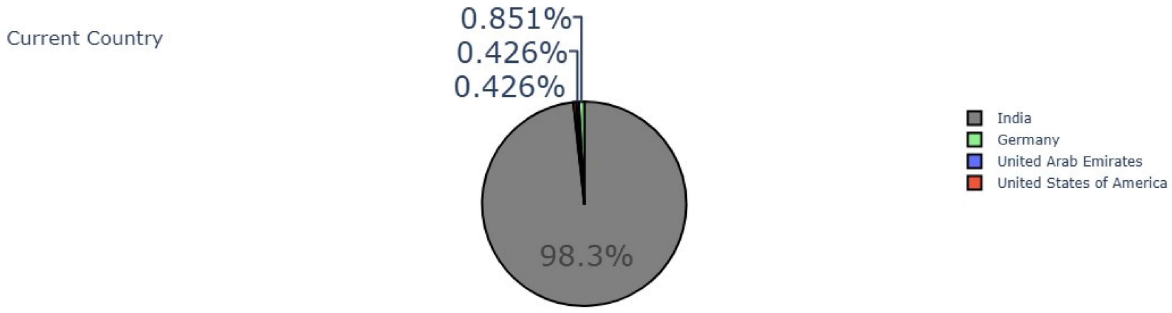
```
print (data.columns)
```

```
Index(['Your Current Country.', 'Your Current Zip Code / Pin Code',
       'Your Gender',
       'Which of the below factors influence the most about your
career aspirations ?',
       'Would you definitely pursue a Higher Education / Post
Graduation outside of India ? If only you have to self sponsor it.',
       'How likely is that you will work for one employer for 3 years
or more ?',
       'Would you work for a company whose mission is not clearly
defined and publicly posted.',
       'How likely would you work for a company whose mission is
misaligned with their public actions or even their product ?',
       'How likely would you work for a company whose mission is not
bringing social impact ?',
       'What is the most preferred working environment for you.',
       'Which of the below Employers would you work with.',
       'Which type of learning environment that you are most likely to
work in ?',
       'Which of the below careers looks close to your Aspirational
job ?',
       'What type of Manager would you work without looking into your
watch ?',
       'Which of the following setup you would like to work ?'],
      dtype='object')
```

1. current country

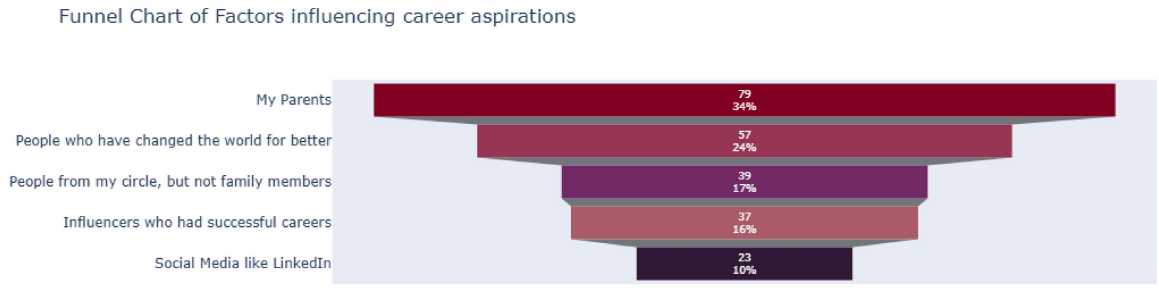
```
country = data["Your Current Country."].value_counts()
label = country.index
```

```
counts = country.values
colors = ['grey','lightgreen']
fig = go.Figure(data=[go.Pie(labels=label, values=counts)])
fig.update_layout(title_text='Current Country')
fig.update_traces(hoverinfo='label+value', textinfo='percent',
textfont_size=25,
                  marker=dict(colors=colors, line=dict(color='black',
width=2)))
fig.show()
```



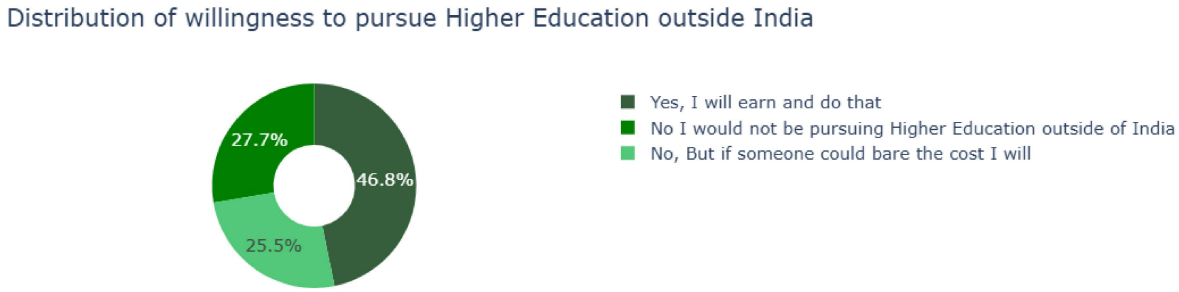
2. The elements that have the biggest impact on career goals

```
question1 = data["Which of the below factors influence the most about
your career aspirations ?"]
factor_counts = question1.value_counts()
labels = factor_counts.index
counts = factor_counts.values
fig = go.Figure(go.Funnel( y=labels, x=counts, textinfo="value+percent
total"))
fig.update_traces(marker=dict(color=['#800020','#953553',
'#702963','#A95C68','#301934']))
fig.update_layout(title_text='Funnel Chart of Factors influencing
career aspirations')
fig.show()
```



3. Would you definitely pursue a Higher Education / Post Graduation outside of India ? If only you have to self sponsor it

```
question2 = data["Would you definitely pursue a Higher Education / Post Graduation outside of India ? If only you have to self sponsor it."]
response_counts = question2.value_counts()
colors = ['#355E3B', '#008000', '#50C878']
fig = go.Figure(data=[go.Pie(labels=response_counts.index, values=response_counts.values, hole=0.4,marker=dict(colors=colors))])
fig.update_layout( title_text='Distribution of willingness to pursue Higher Education outside India', plot_bgcolor='white',
    paper_bgcolor='white',font=dict(size=15))
fig.show()
```



4. How likely is that you will work for one employer for 3 years or more ?

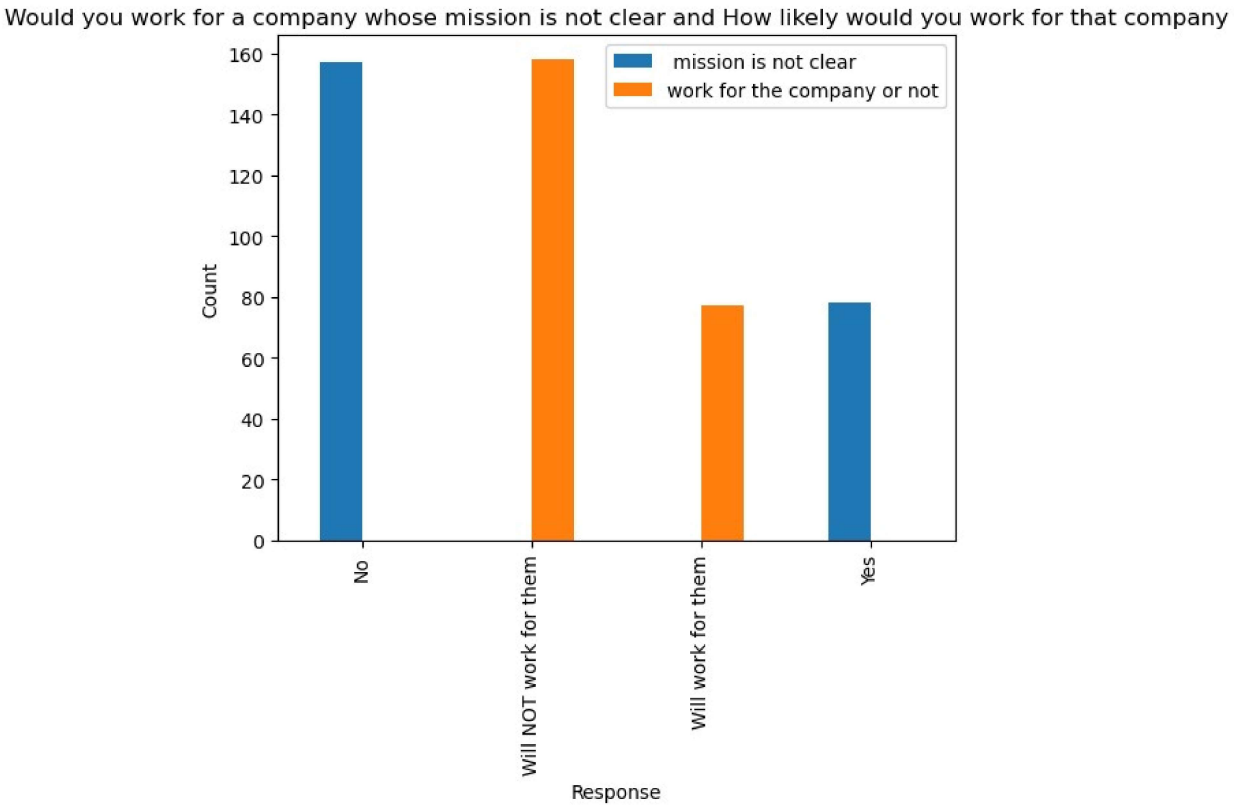
```
import plotly.graph_objects as go

question3 = "How likely is that you will work for one employer for 3
```

```
years or more ?"
question3 = data[question3].value_counts()
label = question3.index
counts = question3.values
colors = ['#808000', '#C9CC3F','#B4C424']
fig = go.Figure(data=[go.Pie(labels=label, values=counts,
marker=dict(colors=colors))])
fig.update_layout(title_text='How likely is that you will work for one
employer for 3 years or more?',showlegend=True)
fig.show()
```

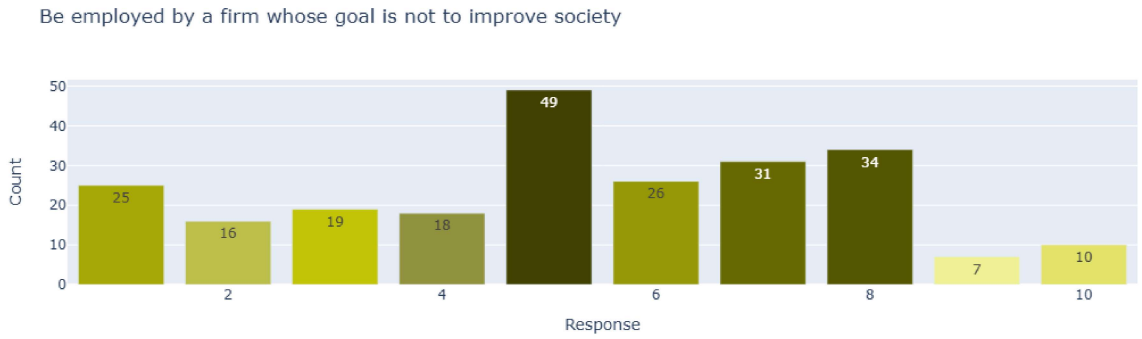
5. Would you work for a company whose mission is not clear and How likely would you work for that company?

```
question4_counts = data["Would you work for a company whose mission is
not clearly defined and publicly posted."].value_counts()
question5_counts = data["""How likely would you work for a company
whose mission is misaligned with their
                          public actions or even their
product ?"""].value_counts()
df = pd.DataFrame({" mission is not clear": question4_counts,
                   "work for the company or not": question5_counts})
label = question5.index
counts = question5.values
df.plot(kind="bar")
plt.xlabel("Response")
plt.ylabel("Count")
plt.title("""Would you work for a company whose mission is not clear
and How likely would you work for that company""")
plt.show()
```



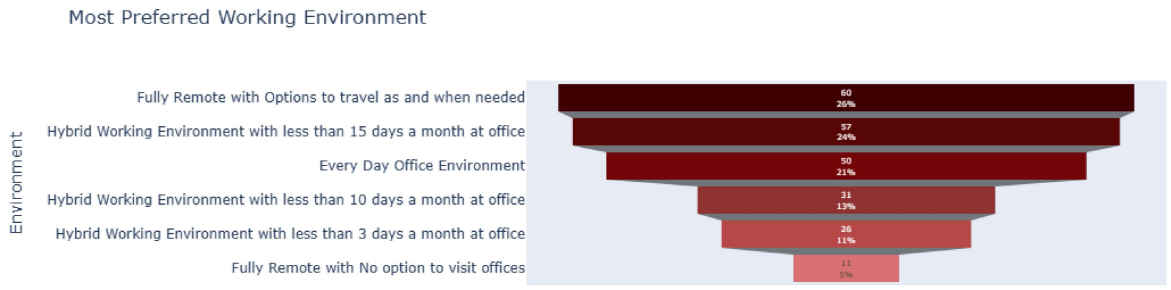
6. How likely would you work for a company whose mission is not bringing social impact ?

```
question6 = "How likely would you work for a company whose mission is
not bringing social impact ?"
question6_counts = data[question6].value_counts()
colors = ['#414202',
'#555601','#676902','#969907','#A5A807','#C1C407','#90923D','#BCBE4C',
'#E2E368','#F0F195']
fig = go.Figure(data=[go.Bar( x=question6_counts.index,
y=question6_counts.values, marker_color=colors,
text=question6 counts.values,
                              textposition='auto')])
fig.update_layout(title='Be employed by a firm whose goal is not to
improve society', xaxis_title='Response', yaxis_title='Count')
fig.show()
```



7. What is the most preferred working environment for you.

```
question7 = "What is the most preferred working environment for you."
question7_counts = data[question7].value_counts()
colors = ['#3E0101',
'#570505','#720505','#8E3131','#B74949','#DA7272']
fig = go.Figure(go.Funnel( y=question7_counts.index,
x=question7_counts.values,   marker=dict(color=colors),
textinfo="value+percent total" ))
fig.update_layout(title='Most Preferred Working Environment',
xaxis_title='Count', yaxis_title='Environment')
fig.show()
```



8. What is the most preferred working environment for you.

```
question7 = "What is the most preferred working environment for you."
question7_counts = data[question7].value_counts()
question8 = "Which of the below Employers would you work with."
question8_counts = data[question8].value_counts()
question9 = "Which type of learning environment that you are most
```

```
likely to work in ?"
question9_counts = data[question9].value_counts()
fig = go.Figure()
fig.add_trace(go.Funnel( name='Preferred Working Environment',
y=question7_counts.index, x=question7_counts.values,
    textinfo="value+percent total", marker=dict(color='gold')))

fig.add_trace(go.Funnel(name='Preferred
Employer',y=question8_counts.index,x=question8_counts.values,textinfo=
"value+percent total",
                        marker=dict(color='lightgreen')))
fig.add_trace(go.Funnel( name='Preferred Learning
Environment',y=question9_counts.index, x=question9_counts.values,
    textinfo="value+percent total", marker=dict(color='lightblue')))
fig.update_layout(title='Preferences Comparison',
                  xaxis_title='Count',
                  yaxis_title='Preference')
fig.show()
```