

```
1
2
3 Exploring the 'Spectrum' {
4
5   [of Suicide Rates]
6
7
8
9   < Dalya Lami, Ali Alam, Jahn Ferdinandus, Dayana Imanova >
10
11
12 }
13
14
```

Introduction; {

'A brief description of our project'

<p

Explore suicide rates across decades through comprehensive research, considering factors like hospital count, geographic variations, age groups, and gender disparities. Visualize dynamic bar charts for age groups and pie charts for gender disparities. Gain a global perspective with interactive maps displaying GDP and suicide counts worldwide. For a closer look, explore interactive maps focusing on hospital counts and suicide rates in Canadian provinces and territories>

</p>

}

Table Of 'Contents' {

01 Project Creation

< There are five steps in creating this project >

02 Tour of the Website

< <https://dayanaim.pythonanywhere.com/> >


03 Q & A

< By the end of this presentation you will have a chance to ask questions >


}

What We Used To 'Create This?' {


Languages

Html  50%

< graph1.html
graph2.html
graph3.html
graph4.html
index.html >

Css  10%

< style.css >

JS  40%

< app.js
app2.js
app3.js
app4.js >

Create a web page



Flask &
Python



Use CSV
Datasets



Add images

}

01 {

[Project Creation]

< There are five steps in
creating this project >

}

Gathering DataSets < /1 > {



< We used 3 Datasets for this project

Url: Canada Provinces

Url: Latitude and Longitude for Every Country and State

Url: suicide Information >

}

Cleaning Datasets < /2 > {



< We removed any null values and merged the datasets that were needed for the visualization part of this project >

}

Flask & Python < /3 >

In order to create our website we needed flask

```

1 from flask import Flask, jsonify, render_template
2
3 import pandas as pd
4
5 @app.route('/')
6 def home():
7     return render_template("index.html")
8
9 def read_csv_and_handle_errors(file_path):
10     try:
11         df = pd.read_csv(file_path)
12         data = df.to_dict(orient='records')
13         return jsonify(data)
14     except FileNotFoundError:
15         return {'error': 'File not found'}, 404
16     except Exception as e:
17         return {'error': str(e)}, 500
18
19 @app.route("/api/lat_and_long")
20 def lat_and_long():
21     return jsonify(read_csv_and_handle_errors('Resources/province_data.csv'))
22
23 @app.route("/api/suicides_data")
24 def api_suicides_data():
25     return jsonify(read_csv_and_handle_errors('Resources/suicides_data.csv'))
26
27 @app.route("/api/pie_chart")
28 def api_pie_chart():
29     return jsonify(read_csv_and_handle_errors('Resources/pie_chart_data.csv'))
30
31 @app.route("/api/province_data")
32 def api_province_data():
33     return jsonify(read_csv_and_handle_errors('Resources/province_data.csv'))
34
35 if __name__ == '__main__':
36     app.run(debug=True)

```

Creating the HTMLs < /4 > }

< We created one main html for the home page and we later created 4 more in order to hold the four graphs that we've created >

html-graphs

<> graph1.html

<> graph2.html

<> graph3.html

<> graph4.html

```
<!doctype html>
<html lang="en-CA">
<head>
  <meta charset="utf-8">
  <title>Project 3</title>
  <meta name="description" content="project 3 description">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet" href="../../css/style.css">
  <script src="https://cdn.jsdelivr.net/npm/apexcharts"></script>
  <script src="../../js/app.js" defer></script>
</head>

<body>
  <div id="header">
    <a href="/" class="button">Back</a>

    <h1>Unraveling Suicide Disparities: A Geographical Analysis and Patterns Across Age Groups</h1>
  </div>

  <div id="graph1">
    <div id="chart1" class="chart-container"></div>
  </div>

</body>

</html>
```


Creating the JavaScript < /5 > {

< We created a JavaScript file for each of the visualizations >

▼ js

JS app1.js

JS app2.1.js

JS app2.2.js

JS app3.js

JS app4.js

}



02 {

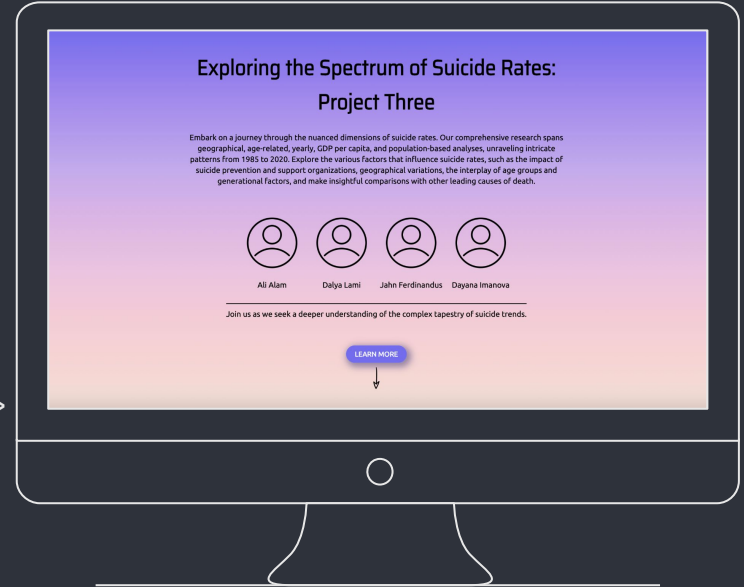
[Tour of the Website]



}

```
1
2
3  Let's take a look
4  at the website {
5
6
7
8
9
10
11
12
13
14 }
```

```
< https://dayanaim.pythonanywhere.com/ >
```



03 {

[Questions & Answers]



}

```
1 Thanks For listening; {
```

```
2  
3     'Do you have any questions?'
```

```
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14 }
```

