Data Collection and Preprocessing Phase

Date	15 March 2024
Team ID	SWTID1719942077
Project Title	**Career Mapper: AI-Powered Personal Career Mapping**
Maximum Marks	6 Marks

Data Exploration and Preprocessing Report

We can't use traditional data exploration and preprocessing techniques often employed in data analysis workflows. This is because the code interacts with a Generative AI model, focusing on user interaction rather than analysing pre-existing datasets. It lacks the functionalities needed to explore and manipulate structured datasets. The user input is considered as data for this project.

Section :	**Description statistics:**
Analyzing person career pathway	**Interest,Hobbies,Education,Age,Interests**

Analyzing General Query Input	Descriptive statistics:
	`if submit_button:`
	`  if education_level == "Other":`
	`  education_level = other_education`
	`  personal_info = {`
	`  "age": age,`
	`  "gender": gender,`
	`  "education_level": education_level`
	`  }`
	`  interests = [hobby.strip() for hobby in hobbies.split(',')]`
	`  skills_list = [skill.strip() for skill in skills.split(',')]`
	
	`  # Generate career pathways`
	`  user_data = [age, gender, education_level, hobbies, skills]`
	`  career_pathways = generate_career_pathways(user_data)`
	
	`  st.subheader("Career Pathways")`
	`  st.write(career_pathways)`

Outliers and Anomalies	-
Data Preprocessing Code Screenshots	
Instruction Model	Generative AI model, likely provided by Google AI through the google.generativeai library. Palm Text Bison Model.

<table>
<tr><td>Libraries Used</td><td>google.generativeai: This library is the core component for interacting with Google's Generative AI model. It facilitates sending user input (processed or raw) to the model and receiving the generated response.

Streamlit: This library is commonly used for creating web applications in Python. It allows you to structure the user interface elements (dropdowns, sliders, text input, image upload) that users interact with to provide input.</td></tr>
<tr><td>Different Models used</td><td>
<table>
<tr><th></th><th>A</th><th>B</th><th>C</th><th>D</th><th>E</th></tr>
<tr><td>1</td><td>Model Type</td><td>Description</td><td>Focus</td><td></td><td></td></tr>
<tr><td>2</td><td>Generative AI M</td><td>Pre-trained mod</td><td>Text generation, responding to prompts, translation</td><td></td><td></td></tr>
<tr><td>3</td><td>User Interface M</td><td>Web framework</td><td>Defines user interface elements and interaction</td><td></td><td></td></tr>
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