**LIZMOTORS CODING ASSIGNMENT (CANOO)**

**Name: Divya Surendra Ghodke**

**Contact: 8554976442**

**email address:** [**divyaghodke47539@gmail.com**](mailto:divyaghodke47539@gmail.com)

**To complete the task of gathering information about Canoo and its industry using Python programming, I followed these steps:**

* **Research and Planning**: At first, I identified the specific information required for the case study, including details about Canoo's industry, competitors, market trends, and financial performance.
* **Web Scraping:** For webscrapping I used the BeautifulSoup library to scrape data from Canoo's website and other relevant sources. This involved sending HTTP requests to the website, parsing the HTML content, and extracting the desired information.
* **Data Extraction:** Once the HTML content was retrieved, I implemented functions to extract relevant information about Canoo's industry, competitors, market trends, and financial performance. This involved identifying key elements within the HTML structure and extracting text or attributes from those elements.
* **Data Storage**: I utilized the pandas library to organize the extracted information into a DataFrame. This allowed me to structure the data in a tabular format, making it easy to manipulate and export to a CSV file for further analysis.
* **Data visualization:** I tried to visualize the relevant data using matplotlib library.

**Challenges Faced:**

**Website Structure:** Websites often have complex structures that can make it challenging to locate and extract specific information. I overcame this challenge by inspecting the HTML source code of Canoo's website and identifying unique identifiers for the relevant data.

**How Challenges Were Overcome:**

Careful examination of website structure and content.

Robust error handling and validation of scraped data.

Regular testing and refinement of the web scraping script.