SECTION C
Weekly Journal

Instruction to Student:
1. On a daily basis, record the specific task that you carried out for that day.
2. At the end of every week, describe one task in more details with diagrams or photos attached.
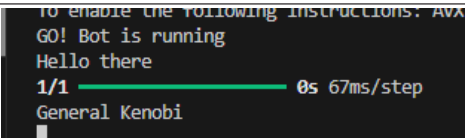
Week : 13   Date from: 3/6/2024   to 7/6/2024

Department/Section Attached: Assembly Metrology

Day	Tasks Record
Monday	- Started learning on AI Chatbot with python using Natural Language Processing and Large Language Models. - Aim to create an AI Assistant to help users for the dashboard. - Continued working on my Internship Report.
Tuesday	- Created a simple AI Chatbot on streamlit capable of having small talk and simple conversations. - Multiple attempts tried to find most suitable for processing. - Single user input and AI output - More data and training required due to inaccuracy.
Wednesday	- Worked on AI Chatbot Features,, Data and learning - Fixed errors in python file conversion program. - Worked on tableau data extraction issues with other engineers.
Thursday	- Detected issue with data extract. - Studied automated python emailing with python. - Continued working on chatbot models. - Worked on Tableau automated emailing.
Friday	- Made an email template using HTML. - Worked on streamlit code to integrate email sending. - Streamlined user process in code for increased efficiency.

Describe one task in more details with diagrams or photos attached.
Explain the importance/relevance of this task to the company.

```
To enable the following instructions: AVX2
GO! Bot is running
Hello there
1/1 ──────────── 0s 67ms/step
General Kenobi
```

This week I created an AI Chatbot Model, capable of providing responses after deciphering user inputs. The python code takes the user input and lemmatizes the word to its root form hence go, going, gone would be essentially the same word. This improves the model's accuracy on providing a response. The model uses a supervised learning method with a prepared data set of inputs and responses. For example, Hi, Hello, Good Morning would provide response of "Hello, how are you". These intents and response are drafted into a json file with suitable conversion tags to group the intents and responses. The model would then be trained based of the data from the json file.

From the image above, I created a dataset of Star Wars Conversations for the AI Chatbot, and it successfully returned the correct response. To improve this model, new unique conversations would need to be recorded and used to further re-train the model. Unfortunately, this chatbot is not able to provide new responses or AI-generated responses due to lack of required API and libraries. However in the future, with more responses, conversation and training the AI could certainly be used for more than just simple conversation but data-analytics and understanding ashttp://sifsatiivyarchive.sing.micron.com/atiivy_archive well.

Assessment on Student

Grading Scheme :

A (Excellent)	-	Consistently exhibit qualities beyond expectation and norms.
B+ (Very Good)	-	Exhibit qualities above expectation and the norms.
B (Good)	-	Exhibit qualities which are considered necessary to produce good quality work.
C+ (Good Credit)	-	Exhibit good qualities which are the norm.
C (Credit)	-	Exhibit acceptable qualities which are the norm.
D (Pass)	-	Exhibit qualities which varies between the norm and unacceptable standard.
F (Fail)	-	Exhibit qualities which are not acceptable and are hindrances to operations.

Conduct:	A	Attendance:	A	* Regular / ⟨Average⟩ / Poor
Performance :	A	Punctuality:	A	⟨Satisfactory⟩ / Unsatisfactory
Remarks :				

Name of Supervisor :	Francis Castro	Signature :	
*Delete whichever is not applicable		Date :	