Internship Task Report

As mention in the task I have used rasa framework , I don't have GPU support in my laptop so I decided to train it on google collab and I found some limitation of rasa framework on collab.

Purpose

The primary purpose of this chatbot is to serve as a virtual Banking assistant, capable of understanding user queries, providing relevant information related to the user's bank balance through natural language conversations.

Rasa Framework

Rasa is responsible for understanding user message .It can extract entities and intents from user input, helping the chatbot understand what the user is asking or stating. Rasa has two main componenets.
- Rasa NLU
- Rasa Core

Creating a simple bot using the Rasa framework is straightforward. The framework provides a template to start with. By using the "rasa init" command, we can create a template and customize actions according to our needs.

Making Of Balance Enquiry Bot

In the given Rasa template, I added intents such as "provide name," "check_balance," and "provide_account_number" in the nlu.yml file. I modified the rules.yml and stories.yml files for training the bot. In the config.yml file, I adjusted the pipeline and used the DIETClassifier for intent classification and entity recognition, trained for 500 epochs.

For training it on collab some more dependencies are needed like "nest_asyncio" , there might be a conflict when trying to run asyncio event loops. The nest_asyncio library helps to overcome this limitation.

And at last I chat with the bot using the following code in collab:

```
1  from rasa.jupyter import chat
2
3  endpoint = None
4  chat(model_path.model, endpoint)
```

Yo can find the full code in the github link:
(https://github.com/subashsigdel/RASABalanceenquirybot)