**Introduction & Literature Review:**

Chatbots, to the best of my knowledge, are essentially simulators from which humans can extract the information they require by chatting with them or recognizing their queries through voice recognition. Chatbots are widely used these days because of their efficiency in responding to multiple people at the same time. The history of chatbots began in the 1950s, with the first one named ELIZA being invented in 1966, followed by PARRY in 1972, and so on, but one thing to note is that these bots were slow to respond in contrast to today. Consider the conversational AI on our phones, smart TVs, laptops, and so on, for example, Alexa developed by Amazon, Siri developed by Apple, Google Assistant developed by Google, and so on which explains how the technology has evolved eventually.

One of the ideas behind chatbots is that they can be accessed at any time for the minimal information that is already available on the website. There is no need to ask anyone, no need to wait for the person or his appointment; all that is required is to say hello to the bot and type in the information that one is looking for.

The issues discussed in the chatbot's development will be related to the questions that several international students have, the majority of which can be found online. Few students are aware of this, but this bot will be beneficial for students who don't know where to look for information. The information that the bot will be providing will be regarding the following departments at Pace, international student services, Advisement, Career Services, Admissions, Student Accounts, few more if something comes up in mind while working on this project.

**Methodology Section:**

As stated previously, the purpose of this project is to create a chatbot that will assist international students in finding relevant information on the pace website (departments are already mentioned above). So, the first step will be to manually create a dataset containing all of the information available online (including the links to websites in the dataset) about the specific departments. After the creation of the dataset, we will perform tokenization to vectorize the data. Once this step is completed, we will use our completed dataset to train the chatbot by creating a neural network model. The next step is to test the chatbot after training the model; this is where I'm stuck right now, determining which measure will be the most accurate for testing the performance of the model. So far, this is the status of the chosen project.

**Article Critique Understanding until now:**

This paragraph is simply a continuation of what was read and understood in three articles about how those will be or were helpful in fulfilling and completing the project. From the first article, try to focus on something that is not only honest and transparent but also extendable after you successfully complete where you left off. In the second article, if possible, visualization is the key to communicating with people in order to represent data in an understandable manner. In the third article, one uses statistical methods to implement one's project, especially if it involves Data Science, and ensure that it is reproducible so that one can learn from it.

**References:**

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