Assignment 5

Electives Advisory System

With Natural Language Interface using NLTK library

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Explanation

- The elective advisory system uses the PortStemmer module provided by the NLTK library in python.
- The system takes input in the form of a paragraph and converts the keywords into their root word, and tries to find similarities with the known words in our database, using stemming algorithms
- Stemming algorithms are provided as a package and can be directly used by importing PorterStemmer from the nltk.stem library.

Steps to run

- Run the program by typing:-
  python electives_nltk.py

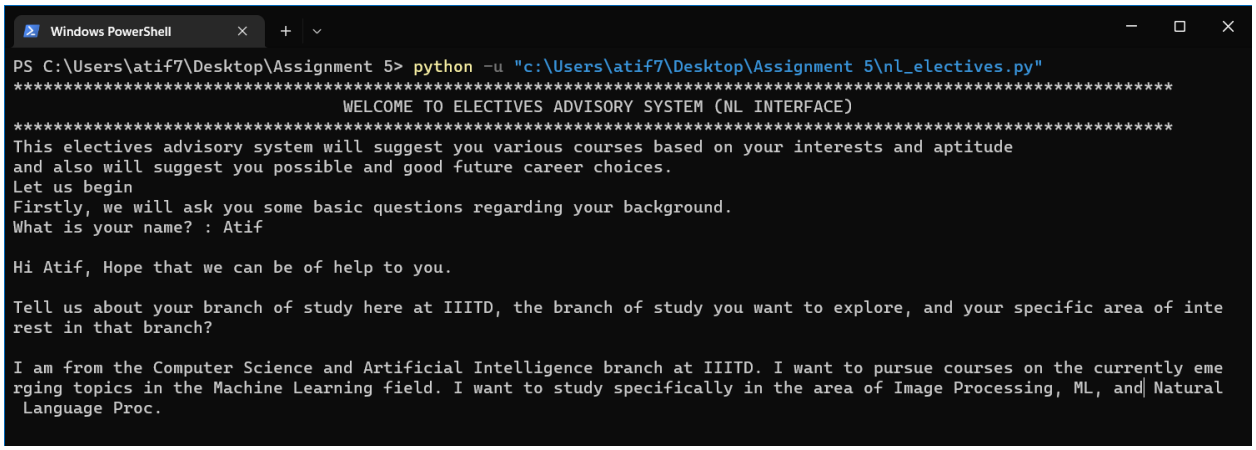
Assumption

Here we are going to make an assumption that the information about the user's branch would be in the first sentence, the branch of engineering the user wants to explore would be in the second line, and the specific interest of the user in a particular field (e.g:- Machine Learning, VLSI Design, etc.) would be in the third sentence.

Sample Outputs

Input 1

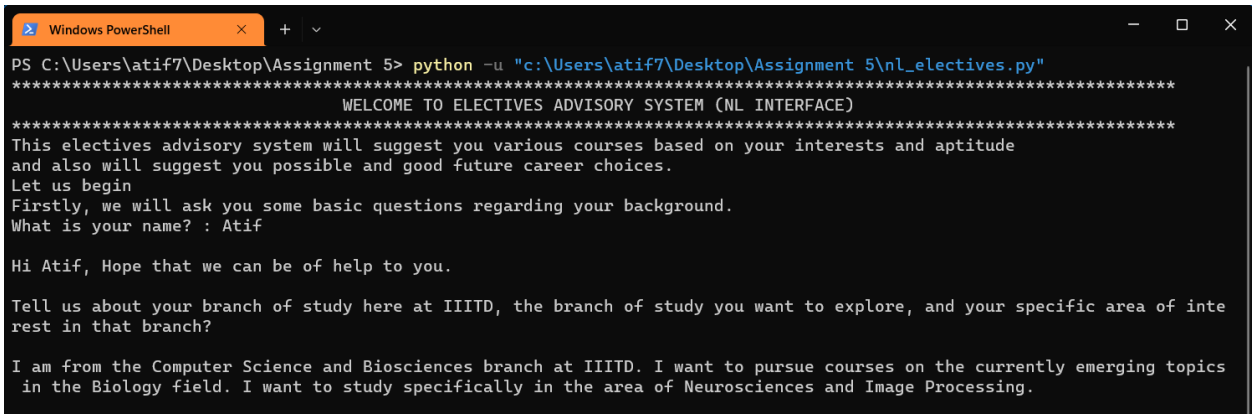
I am from the Computer Science and Artificial Intelligence branch at IIITD. I want to pursue courses on the currently emerging topics in the Machine Learning field. I want to study specifically in the area of Image Processing, ML, and Natural Language Proc.



Output 1

Input 2

I am from the Computer Science and Biosciences branch at IIITD. I want to pursue courses on the currently emerging topics in the Biology field. I want to study specifically in the area of Neurosciences and Image Processing.



Output 2