Artificial Intelligence

Assignment-1

Name:- Vanisha Singh
Roll No. :- 2020347

Explanation:- Basically, I developed an elective advisory system for the students of IIIT Delhi. The system aims to know the interests, branch, GPA, career the student wants to pursue in the future, and various other parameters, and then the advisory system suggests the best elective student must pursue.

Working:-
1. The code flow begins with knowing what degree and branch the student is pursuing.
2. Then the system informs the student about various electives that there branch has to offer.
3. Then the system tries to know the student more by asking various questions about interests, gpa, and the career they plan to pursue.
4. Based on all the information given by the student and given the electives offered for the branch, the ai system chooses the best elective student must take based on his needs.

Language:- Prolog

Below are attached the screenshot of the working code:-

Screenshot:-

```
?- ['/Users/vanishasingh/desktop/coding/prolog/Assignment1.pl'].
true.

?- start.
HELLO!
This is an Elective Advisory System
Are you currently persuing B.Tech. or M.Tech.?
|: btech.

What is your branch? (CSE,CSAM,CSD,CSSS,ECE)
|: cse.

The electives offered for your branch are as follows :-
1 Mobile Computing
2 Security & Privacy
3 Computer Architecture
4 Data Analytics
5 Image Analysis & Machine Learning

What is your CGPA?
|: 9.


What Carrer Do You Want To Persue From The Given Choices:-
1. Data Analyst/Machine Learning
2. Security and Privacy Engineer
3. Mobile Application Developer
|: data_analyst/machine_learning.

Do you have interest in security and privacy?
|: no.

Do you have interest in computer architechture?
|: no.

Do you have interest in data analysis and machine learning
|: yes.

Do you have interest in designing, development and evaluation of mobile applications
|: no.

Recommendation:- Data Analytics

true .

?-
```

```
?- ['/Users/vanishasingh/desktop/coding/prolog/Assignment1.pl'].
true.

?- start.
HELLO!
This is an Elective Advisory System
Are you currently persuing B.Tech. or M.Tech.?
|: mtech.

What is your branch? (CSE,ECE,CB)
|: cse.

The electives offered for your branch are as follows :-
1 Advanced Algorithms
2 Graduate Algorithms
3 Mobile Computing
4 Wireless Networks
5 Compilers
6 Information Retrieval
7 Computer Architecture
8 Program Analysis

What is your CGPA?
|: 8.


What Carrer Do You Want To Persue From The Given Choices:-
1. Software Developer
2. Wireless Network Engineer
3. Mobile Application Developer
|: software_developer.

Do you have interest in designing, development and evaluation of mobile applications
|: no.

Do you have interest in computer architechture?
|: no.

Do you interest in learning advanced/high level algorithms
|: yes.

Are you interested in learning about compilers and how they actually work?
|: yes.

Do you have interest knowing how wireless networks work?
|: no.

Recommendation:- Advanced Algorithms

true .

?-
```

```
?- ['/Users/vanishasingh/desktop/coding/prolog/Assignment1.pl'].
true.

?- start.
HELLO!
This is an Elective Advisory System
Are you currently persuing B.Tech. or M.Tech.?
|: btech.

What is your branch? (CSE,CSAM,CSD,CSSS,ECE)
|: csd.

The electives offered for your branch are as follows :-
1 Computer graphics
2 Data visualization
3 Image Processing
4 Computer vision
5 Machine learning
6 Affective Computing
7 Animation principles and design
8 Virtual reality

What is your CGPA?
|: 9.


What Carrer Do You Want To Persue From The Given Choices:-
1. In AI/Machine Learning
2. Image Processing
3. In Virtual Reality
|: image_processing.

Do you have in image processing and transformation?
|: yes.

Do you want to discover the machine learning field and try out how one can make machine learn and predict data?
|: no.

Do you have interest in computer graphics including necessary mathematics and algorithms?
|: no.

Do you want interest in visualization of data?
|: no.

Do you want to learn computer vision?
|: no.

Do you have interest in virtual reality?
|: no.

Do you have interest in animation?
|: no.

Recommendation:- Image Processing

true .

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```