

# MTech Elective Advisory System 2022

This Prolog script helps in choosing your Electives for MTech curriculum at IIIT Delhi, based on the four specializations offered.

1. Artificial Intelligence
2. Data Engineering
3. Information Security
4. No Specialization

There is one folder named **Mtech Elective Advisory System 2022**.

For running the script, the user needs to follow the mentioned steps:

1. Consult the main.pl file in Prolog Software, and then type : ?- start.

```
Welcome to SWI-Prolog (threaded, 64 bits, version 8.4.3)
SWI-Prolog comes with ABSOLUTELY NO WARRANTY. This is free software.
Please run ?- license. for legal details.

For online help and background, visit https://www.swi-prolog.org
For built-in help, use ?- help(Topic). or ?- apropos(Word).

?-
% c:/Users/aayus/Desktop/AI Assignment/Assignment_1/main.pl compiled 0.00 sec, 25 clauses
?- start.

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MTech Elective Advisory System 2022
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This Prolog script helps in choosing your Electives for MTech curriculum at IIIT Delhi
The advisory is generated using your level of interest in a particular domain
Please enter your name in single quotes and press . █
```

2. Type your name in single quotes. After typing the name, enter the specialization that you want to choose.

```
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MTech Elective Advisory System 2022
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This Prolog script helps in choosing your Electives for MTech curriculum at IIIT Delhi
The advisory is generated using your level of interest in a particular domain
Please enter your name in single quotes and press . 'Aayush'.

Welcome, Aayush. The following set of questions will help me make a better prediction for your electives.
Can you tell me one of the four specialisation that you are thinking to take ?
-> Artificial Intelligence
-> Data Engineering
-> Information Security
-> Without Specialization
```

3. Once you select one of the specializations, indicate your interest level for various subjects.

```

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?-
% c:/Users/aayus/Desktop/AI Assignment/Assignment_1/main.pl compiled 0.00 sec, 25 clauses
?- start.

-----
MTech Elective Advisory System 2022
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The advisory is generated using your level of interest in a particular domain
Please enter your name in single quotes and press . 'aayush'.

Welcome, aayush. The following set of questions will help me make a better prediction for your electives.
Can you tell me one of the four specialisation that you are thinking to take ?
-> Artificial Intelligence
-> Data Engineering
-> Information Security
-> Without Specialization
|: 'Data Engineering'.

Thank You for selecting your Specialization
As a final step, please enter your interest in the selected domain.
Enter a value from 0 to 5, 0 meaning no interest and 5 meaning highly interested:

0 - No interest
1 - Low interest
2 - Medium interest
3 - High interest
4 - Very high interest
5 - Completely intrigued and fascinated

Amount of knowledge in DSA-Data Structure and Algorithm |: 4.
Amount of knowledge in DBMS-Database Management |: 4.
Amount of knowledge in GR-Graphical Representation |: 3.
Amount of knowledge in LA-Linear Algebra |: 4.
Amount of knowledge in ST-Statistics |: 3.
Level of interest in Model real-world problems, apply different learning techni4.
Level of interest in topics relating to components of a Database System includi4.
Level of interest in design and analyse algorithms using techniques like divide3.
Level of interest in learn techniques designed to be used for finding interesti4.
Level of interest in get hands-on experience on designing different real-world 4.
Level of interest in get hands on learning for the development life cycle of a 3.

```

4. Once you have entered all the answers, you will get a output of the predicted electives.

```

% c:/Users/aayus/Desktop/AI Assignment/Assignment_1/main.pl compiled 0.00 sec, 25 clauses
?- start.

-----
MTech Elective Advisory System 2022
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This Prolog script helps in choosing your Electives for MTech curriculum at IIIT Delhi
The advisory is generated using your level of interest in a particular domain
Please enter your name in single quotes and press . 'aayush'.

Welcome, aayush. The following set of questions will help me make a better prediction for your electives.
Can you tell me one of the four specialisation that you are thinking to take ?
-> Artificial Intelligence
-> Data Engineering
-> Information Security
-> Without Specialization
|: 'Data Engineering'.

Thank You for selecting your Specialization
As a final step, please enter your interest in the selected domain.
Enter a value from 0 to 5, 0 meaning no interest and 5 meaning highly interested:

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Amount of knowledge in ST-Statistics |: 3.
Level of interest in Model real-world problems, apply different learning techni4.
Level of interest in topics relating to components of a Database System includi4.
Level of interest in design and analyse algorithms using techniques like divide3.
Level of interest in learn techniques designed to be used for finding interesti4.
Level of interest in get hands-on experience on designing different real-world 4.
Level of interest in get hands on learning for the development life cycle of a 3.
List of electives
ML
DBSI
GA
NLP
DW
true .

```

## Trying out the Information Security Specialization.

```
?- start.
=====
MTech Elective Advisory System 2022
=====
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The advisory is generated using your level of interest in a particular domain
Please enter your name in single quotes and press . 'aayush'.

Welcome, aayush. The following set of questions will help me make a better prediction for your electives.
Can you tell me one of the four specialisation that you are thinking to take ?
-> Artificial Intelligence
-> Data Engineering
-> Information Security
-> Without Specialization
|: 'Information Security'.

Thank You for selecting your Specialization
As a final step, please enter your interest in the selected domain.
Enter a value from 0 to 5, 0 meaning no interest and 5 meaning highly interested:

0 - No interest
1 - Low interest
2 - Medium interest
3 - High interest
4 - Very high interest
5 - Completely intrigued and fascinated

Amount of knowledge in DSA-Data Structure and Algorithm |: 3.
Amount of knowledge in CN-Computer Network |: 4.
Amount of knowledge in OS-Operating System |: 4.
Amount of knowledge in DMA-Discrete Mathematics |: 3.
Have you completed any Course in Computer Network (Y/N)|: 'Y'.
Level of interest in learn about three basic principles of Modern Cryptography?4.
Level of interest in learn cryptosystems based on block ciphers, stream ciphers5.
Level of interest in learn about Security notions, adversary powers, Perfect se4.
Level of interest in various privacy and security concerns (spam, phishing, fra3.
List of electives
TMC
NSC
AC
PSOSM
true .
```