Machine Learning

Q1.
Lists:

1. Create an empty list my_list.
2. Append three elements to my_list using the append method.
3. Insert an element at a specific position in my_list using the insert method.
4. Remove an element from my_list using the remove method.
5. Print the final state of my_list.

Q2.
Tuples:

1. Create a tuple my_tuple with at least five elements.
2. Use tuple unpacking to assign values to multiple variables.
3. Concatenate two tuples and print the result.
4. Access and print the elements of my_tuple using both positive and negative indexing.
5. Perform any operation that demonstrates that tuples are immutable.

Q3.
Input and Output:

1. Prompt the user to enter their name using input.
2. Print a welcome message using the entered name.
3. Ask the user to input two numbers, convert them to integers, and calculate their sum and product.
4. Display the results using formatted output.

Q4.
Operators:

1. Create a variable number and initialize it with an integer value.
2. Use the modulus operator to check if the num is even or odd.
3. Use a comparison operator to check if the num is greater than or equal to 10.
4. Combine logical operators to create a complex condition and print the result.

Submission Details:

- Save your Python code in a Jupyter Notebook (.ipynb file).
- Upload the notebook to your GitHub repository.
- Share the GitHub repository link for evaluation.

Submission Deadline: 3-11-24

Note:

- Assignment Submitted in **PDF form.**

- **In PDF form**, you must include the **screenshot of the code and its output**.

- **If mentioned**, then write **python script**(.py), **notebook file**(.ipynb) or **markdown file**(.md) that includes the code for each task.

- Include **comments** in your code to explain the purpose and functionality of each step.

- If there is any **theoretical question**, explain it briefly with **examples and diagrams**.

- Send it to this **email id**:

  jtechsolution93@gmail.com

- You can get help from **ChatGPT** or any **Chatbot,** but at the **end.**

- If Any, then It is highly recommended that you read **research papers for assignment**.

  Helping Websites for research papers are:

  https://scholar.google.com/

  https://sci-hub.hkvisa.net/

  - **https://sci-hub.hkv**