DELHI TECHNOLOGICAL UNIVERSITY

Department of Software Engineering

Labs & Infrastructure

Artificial Intelligence and Machine Learning Research Lab
Officer-in-Charge: Prof. Ruchika Malhotra and Dr. Shweta Meena

AIML (Artificial Intelligence Markup Language) is an XML-based language **designed for creating chatbots and other conversational agents. It was originally developed as part of the** A.L.I.C.E (Artificial Linguistic Internet Computer Entity) **project by** Dr. Richard Wallace **in the 1990s.**

Key Features of AIML:

1. **Simple and Readable** – Uses XML-like syntax, making it easy to learn and edit.
2. **Rule-Based** – Uses pattern-matching rules to generate responses.
3. **Extensible** – Can be expanded with new patterns and templates to improve chatbot responses.
4. **Lightweight** – Requires minimal resources and can run on basic platforms.
5. **Works with Various Programming Languages** – Can be integrated with Python, Java, C++, and others.

SCOPE OF AIML

AIML is widely used in rule-based chatbots and virtual assistants. While it may not be as advanced as modern NLP-based chatbots, AIML still holds relevance in various applications due to its simplicity, efficiency, and ease of customization. AIML makes it possible to create human interfaces while keeping the implementation simple to program, easy to understand and highly maintainable

Equipment's in Lab:
Computers and Hardware Peripherals -:

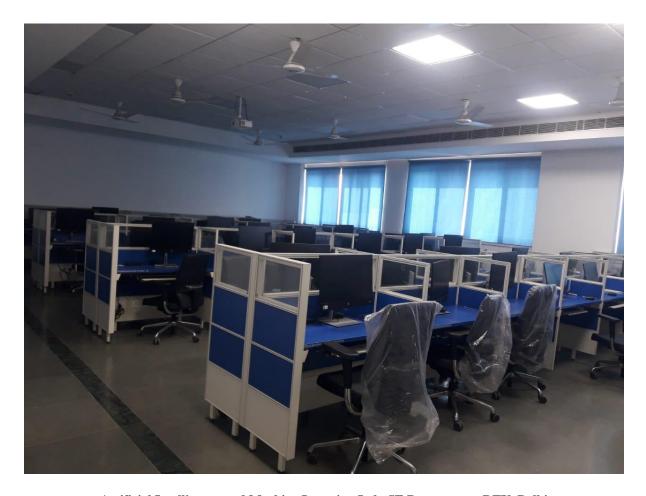| Lab Name	Manufacturer/ Model	Processor/RAM/HDD	Operating System	Unit
Artificial Intelligence and Machine Learning Lab	HP	Processor 12th Gen Intel(R) Core (TM) i7-12700 2.10 GHz Installed RAM 16.0 GB System type 64-bit operating system, x64-based processor	64-bit Windows 11 pro	45

BenQ Projector- 01

Wi-Fi: -

Manageable Wi-Fi access point in the lab for access Internet on Desktop and Laptop.

Installed Software & Tools: -
Oracle, 10g , Turbo C++ 4.0 , Code blocks – 13.12 , Dev Cpp - 4.9.9.2, Python, Ms Office.
etc.

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