Internship Assignment: AI/ML Task for NLTI

Objective:

Design a basic AI/ML-based solution to improve mentorship or engagement for law aspirants preparing for CLAT and other entrance exams.

Choose one of the following tasks (or complete both for bonus consideration):

Task 1: Personalized Mentor Recommendation System

Problem Statement:

Design a simple ML model to recommend mentors (CLAT toppers) to aspirants based on user profiles.

Deliverables:

- A brief explanation of the approach.

- A Jupyter notebook or Python script that:

- Loads mock data (or real anonymized data, if available).

- Processes features like aspirant's preferred subjects, target colleges, current preparation level, and learning style.

- Uses basic classification/clustering/recommendation techniques (e.g., KNN, content-based filtering, or cosine similarity).

- Outputs top 3 mentor recommendations.

Bonus: Include a short analysis on how the system can improve over time with user feedback.

Task 2: Chatbot for Legal Exam Queries

Problem Statement:

Build a simple rule-based or NLP-powered chatbot prototype that answers CLAT-related queries.

Sample Use Cases:

- "What is the syllabus for CLAT 2025?"

- "How many questions are there in the English section?"

- "Give me last year’s cut-off for NLSIU Bangalore."

Deliverables:

- A Python notebook or simple Flask/Streamlit app that:

- Accepts a query.

- Searches a small provided knowledge base (or open-source CLAT syllabus and FAQs).

- Responds with relevant answers using either keyword search or basic NLP (e.g., spaCy, NLTK, or Transformers if applicable).

- Brief explanation of architecture.

Bonus: Suggest how this can be scaled to a GPT-based model fine-tuned on NLTI's content.

Submission Format:

- GitHub repo or zipped folder with:

- Code (.ipynb or .py)

- README with setup instructions and summary of your approach

- Optional: Video walkthrough (max 3 mins)

Evaluation Criteria:

- Clarity and thoughtfulness of approach

- Code quality and documentation

- Creativity in applying ML concepts

- Relevance to NLTI's vision (law mentorship and aspirant support)