2. MLOps (Powered by LawYantra)

Abstract:
In a rapidly evolving legal landscape, the demand for effective client-attorney matchmaking has never been higher. To meet this challenge, we invite participants to develop an innovative MLOps-driven platform that seamlessly connects clients with legal experts. This platform will harness the power of Machine Learning Operations (MLOps) to facilitate precise matches based on client's unique legal concerns and attorney's specialized expertise. Our goal is to revolutionize the legal industry by optimizing the client-attorney matchmaking process

Problem Statement:

MLOps-Powered Legal Matchmaking: Create an MLOps-driven platform for precise client-attorney matchmaking, leveraging advanced techniques to connect clients with attorneys based on their unique legal concerns, while ensuring that the platform can accept user requests. This datathon aims to streamline legal expertise access, ensuring a user-friendly and efficient experience, ultimately revolutionizing the legal industry. The platform should be capable of extracting necessary information from user requests in any language for efficient matchmaking. For example, match a client seeking patent advice with an attorney specialized in intellectual property law, enhancing the accessibility and effectiveness of legal support.

Dataset :
Following is a real world data of Lawyers
https://docs.google.com/spreadsheets/d/15Okg9hJvMsOqBXWEzZXSmX30T0pXK6NckoEuIkiYnbU/edit?usp=sharing

Key Objective:

1. Client-Attorney Precision Matchmaking: Create a recommendation system to connect clients with attorneys who match their specific legal needs. System should also ensure that recommended lawyers should have an equal gender ratio.
2. Efficiency and User-Friendly Experience: Optimize matchmaking and simple query input for a seamless experience.
3. Data Storage: Create a vector database to store and search the word embeddings of the lawyer data.
4. Client-Server Interface: Create a Client-Server Interface where users can put their queries and get recommendations.

- Multilingual Support: Implement the capability for the platform to support multiple languages, making it accessible to a global audience. This task involves language detection, translation, and providing attorney-client matching across language barriers.
- AI Query Assistance: Integrate real-time AI support for user queries, enhancing precision and effectiveness in attorney-client matchmaking, especially for non-native languages.
- Analytics Dashboard: Extract Data from the given dataset to create an analytics dashboard.

- Evaluation criteria:
- You will receive the test data at 9am on 29th October, 2023 the judging round, which will include information about more lawyers. Using the admin dashboard, you should be able to add these new profiles to the system. The recommendation feature should also dynamically include these newly added profiles in real-time, ensuring that they are part of the recommendations made to users.

Brownie points:

- Feedback Integration: Integrate a feedback system for clients and attorneys to provide reviews and ratings, and display this to the admin.
- Data Preprocessing: Working with real world data comes with its own set of problems, preprocessing data and removing anomalies is important.
- Explainable AI Component: Develop a feature that explains why specific attorney-client matches are made, enhancing transparency and trust.