**Technologies used in Legal AI**

1. **Core Technologies:**

* **Python** as the main programming language
* **Rasa** (version 3.6.2) as the conversational AI framework for building the chatbot
* **MySQL** (mysql-connector-python 8.0.33) for database management
* **FastAPI** (0.104.1) for building the web API
* **Uvicorn** (0.24.0) as the ASGI server

1. **Web Technologies:**

* **WebSockets** (websockets 12.0) for real-time communication
* **Socket.IO** (python-socketio 5.10.0) for real-time bidirectional communication
* **Jinja2** (3.1.2) for templating
* **Selenium** (4.18.1) for web scraping
* **WebDriver Manager** (4.0.1) for managing browser drivers

1. **Project Structure:**

* **Chatbot Components:**

domain.yml: Defines the chatbot's intents, entities, responses, and actions

actions.py: Contains custom actions for the chatbot

rasa\_data/: Directory for Rasa training data

.rasa/: Rasa configuration directory

* **Database Management:**

Multiple database-related scripts for checking, updating, and managing the database.

SQL files for schema definition and updates.

JSON files for data storage (crimes\_data.json, ipc\_sections.json)

* **Web Scraping:**

Selenium\_scraper.py and ipc\_scraper.py for scraping legal information.

Logging functionality for scraping operations.

1. **Key Features:**

* **Legal AI Assistant focused on Indian Penal Code (IPC) information**
* **Crime and punishment information system**
* **Database management and data validation tools**
* **Web scraping capabilities for legal data**
* **RESTful API endpoints**
* **Real-time chat interface**

1. **Development Tools:**

* **Virtual environment (venv/)**
* **Testing directory (tests/)**
* **Logging system (chat.log, ipc\_scraping.log)**
* **Configuration management (config.yml, credentials.yml)**

1. **Project Purpose:**

**This appears to be a Legal AI Assistant specifically designed for law enforcement, with capabilities to:**

* **Provide information about IPC sections**
* **Answer queries about crimes and punishments**
* **Handle crime-related information**
* **Maintain a database of legal information**
* **Scrape and update legal data**
* **Provide a conversational interface for legal queries**