

# Problem Statement

**“ Introduction to GenAI and Simple LLM  
Inference on CPU and finetuning of LLM  
Model to create a Custom Chatbot ”**

# Introducing - Sahi Jawab : AI Legal Assistant

- Lack of Accessible Legal Information: Many individuals struggle to find reliable and easily accessible legal information about Indian laws.
- Complex Legal Terminology: Legal documents and laws are often written in complex language that is difficult for non-experts to understand.
- Difficulty in Legal Research: Legal research can be time-consuming and challenging for those without legal expertise.
- Limited Resources for Legal Guidance: There are few platforms offering comprehensive, user-friendly legal advice or information in a single place.
- Need for Efficient Document Analysis: Legal professionals and students need tools for quick comparison and analysis of legal documents.



# Sahi Jawab

Your Nyaya Mitra








# Sahi Jawab

Your Nyaya Mitra







# Unique Idea Brief (Solution) 💡

- **Comprehensive Legal Platform:** Sahi Jawab is a user-friendly platform providing accurate information on Indian laws. **(Not Always True)**
- **Embedded Legal Texts:** Integrated data from three newly enacted criminal laws: The Bharatiya Nyaya Sanhita (BNS), the Bharatiya Nagrik Suraksha Sanhita (BNSS), and the Bharatiya Sakshya Adhiniyam (BSA).
- **Document Similarity Feature:** Searches and compares the legal documents for similarities and differences.
- **Interactive Query System:** Users can ask legal questions and receive clear, concise answers based on the embedded legal texts. **(Not Always True)**
- **Future Features:** Plans for legal document translation, real-time discussions, lawyer connections, and a comprehensive legal repository.

# Features Offered


- **Legal Data Integration:**  Access to the complete text of BNS, BNSS, and BSA.
- **Document Similarity:**  Compare and analyze legal documents with advanced similarity detection.
- **User-Friendly Interface:**  Intuitive design for easy navigation and query submission.
- **Interactive Query System:**  Ask legal questions and receive clear, concise answers.
- **Future Enhancements:**  Legal Papers Language Translation, Instant Talks, Connect with Verified Lawyers, and a Whole Repository of Legal Papers and Judgments.

# Process flow

- **User Interaction:**  User visits the platform and starts the document embedding by providing the API Keys and submits a legal query.
- **Vector Embeddings:**  The system processes the document by creating the vector embeddings which helps in similarity search.
- **Query Processing:**  The user then types in the legal query and system processes the query and the document using advanced algorithms.
- **Information Retrieval:**  Retrieves relevant legal information from the embedded texts or compares documents.
- **Response Generation:**  Provides clear and concise answers or document analysis results.
- **User Engagement:**  Users can interact with the system for further questions or insights.

# Process flow

sahi-jawab.streamlit.app


Start the App by Clicking Here 

Start Documents Embedding

tell me about laws of trespassing ?


Enter GROQ API Key:



 Please enter your credentials!

Enter Google API Key:



 Please enter your credentials!

 Radhe Radhe 🙏!

I'm Sahi Jawab (Your Nyaya Mitra), developed by Keshav Agrawal, here to guide you through the vast landscape of Indian laws. I'm delighted to help you with your queries! 💖

Regarding your question about laws of trespassing, I'd be happy to enlighten you. According to the Bharatiya Nyaya Sanhita (BNS), criminal trespass is defined under Section 327 as:

"Whoever enters into or upon property in the possession of another with intent to commit an offence or to intimidate, insult or annoy any person in possession of such property or having lawfully entered into or upon such property, unlawfully remains there with intent thereby to intimidate, insult or annoy any such person or with intent to commit an offence is said to commit 'criminal trespass'."

Furthermore, Section 329 of the BNS explains that whoever commits criminal trespass by entering into or remaining in any building, or by entering into or remaining in any property in the possession of another, with the intent mentioned above, shall be punished accordingly.

# Architecture Diagram

- **Frontend:** User Interface for submitting queries and viewing responses.  
-----> Made using Streamlit, an open-source Python Framework
- **Backend:** Server-side processing of queries and document analysis.  
-----> Made using Large Language Models(LLM's) like Llama3
- **Data Storage:** Database for storing legal texts and vector files.  
-----> Stored locally on the server running.
- **APIs:** Integration with GROQ API for fast inference and Google's Embedding Model for data processing.  
-----> API integration of GROQ for Llama3 and Google for Generative Embeddings.
- **Integration:** Communication between frontend, backend, and external APIs.  
-----> All connected together made the AI Legal Chatbot.








# Technologies used

- **GROQ API:** ⚡ Fast and efficient inference engine for processing legal queries.
- **Large Language Model (LLM's) :** 🤖 AI models trained on very vast dataset.
- **Google Embedding Model:** 🧠 High-quality embeddings for legal text analysis.
- **Streamlit:** 🌐 Open-source framework for rapid web app development frontend.
- **Python:** 🐍 Programming language for backend development and data processing.
- **Streamlit Cloud:** ☁ Cloud services for deploying and hosting the application.

# Team members and contribution

Team Lead & Member : Keshav Agrawal

## Contribution :


-  **Project Lead and Developer** – Led the development, integration, and design of the platform.
-  **Backend Developer** – Developed server-side functionalities and integrated APIs.
-  **Frontend Developer** – Designed the user interface and user experience.
-  **Legal Expert** – Provided legal expertise for embedding texts and validating legal information.
-  **QA Specialist** – Conducted testing, identified issues, and ensured the platform's quality.

# Project Snapshots

 Sahi Jawab



Fork  



Sahi Jawab : Your Nyaya  
Mitra

 How may I assist you today?




Your Nyaya Mitra

Sahi Jawab : Your Nyaya Mitra  

 About Us 

 API key already provided!

Your message 



# Project Snapshots

✓ API key already provided!

✓ API key already provided!

Start the App by Clicking Here ✓

Start Documents Embedding

Developed By -


Keshav Agrawal  
2nd year Student  
B.Tech(Hons) CSE AI-ML

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Special Thanks to our Mentor

Dr.Ankur Rai, Professor,  
GLA UNIVERSITY, Mathura

Looking to Restart your Conversation 

Start a New Chat

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Developed with ❤️ for GenAI by  
Keshav Agrawal

✓ API key already provided!

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Start the App by Clicking Here ✓

Start Documents Embedding

 Processing...

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# Project Snapshots


 Sahi Jawab

Sahi Jawab : Your Nyaya Mitra




Your Nyaya Mitra


Sahi Jawab : Your Nyaya Mitra 

 About Us

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Fork  

 How may I assist you today?

 tell me laws for forgery

 Radhe Radhe 🙏!

Welcome to Sahi Jawab, your Nyaya Mitra! I'm here to guide you through the vast landscape of Indian laws.

You've asked about the laws related to forgery. Well, I'm happy to help!

According to the Bharatiya Nyaya Sanhita (BNS), there are several sections that deal with forgery. Here are some of them:

- Section 334(3): Forgery for the purpose of cheating, punishable with imprisonment for 7 years and fine.
- Section 334(4): Forgery for the purpose of harming the reputation of any person, punishable with imprisonment for 3 years and fine.
- Section 335: Forgery of a record of a Court of Justice or of a Registrar of Births, etc., kept by a public servant, punishable with imprisonment for 7 years and fine.
- Section 336: Forgery of a valuable security, will, or authority to make or transfer any valuable security, or to receive any money, etc., punishable with imprisonment for life, or imprisonment for 10 years and fine.
- Section 337: Having possession of a document, knowing it to be forged, with intent to use it as genuine, punishable with imprisonment for 7 years and fine.
- Section 338: Forgery of a document or a signature, punishable with imprisonment for 7 years and fine.

Your message



# Document Similarity Search 📷

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✅ API key already provided!

Fork 🔄 ⋮

with imprisonment for life, or imprisonment for 10 years and fine.

- Section 337: Having possession of a document, knowing it to be forged, with intent to use it as genuine, punishable with imprisonment for 7 years and fine.
- Section 338: Forged document or electronic record and using it as genuine, punishable with imprisonment for life, or imprisonment for 10 years and fine.
- Section 339: Making or possessing counterfeit seal, etc., with intent to commit forgery punishable under section 338, punishable with imprisonment for life, or imprisonment for 7 years and fine.
- Section 342: Falsification of accounts, punishable with imprisonment for 7 years and fine.

These are just a few of the laws related to forgery. If you have any specific questions or need further clarification, feel free to ask! 😊

Document Similarity Search

(xiii) 335. Forgery of record of Court or of public register, etc.

336. Forgery of valuable security, will, etc .

337. Having possession of document described in section 335 or 336, knowing it to be forged and intending to use it as genuine.

338. Forged document or electronic record and using it as genuine.

339. Making or possessing counterfeit seal, etc ., with intent to commit forgery punishable under section 336.

340. Counterfeiting device or mark used for authenticating documents described in section 336, or possessing counterfeit marked material .

341. Fraudulent cancellation, destruction, etc ., of will, authority to adopt, or valuable security.

342. Falsification of accounts. Of Property Marks

Your message

# Conclusion

- **Successful Development:** We have successfully created a platform that addresses critical gaps in legal information accessibility and document analysis.
- **Deployed at :** <https://sahi-jawab.streamlit.app/>
- **Impactful Solution:** Sahi Jawab aims to make legal knowledge accessible, accurate, and user-friendly for everyone.
- **Exciting Future:** We look forward to implementing upcoming features and continuing to improve the platform for a broader audience.

**Thank You:** A heartfelt thank you to everyone who supported and believed in this project.