



INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS (IJCRT)

An International Open Access, Peer-reviewed, Refereed Journal

Lawbuddy: Ai-Powered Legal Chatbot For Case Tracking, Proof Management, And Legal Assistance

¹Apeksha G S, ²Kiran Kumar M, ³Krushik M G, ⁴Suhas A S, ⁵Madesha M

¹Student, ²Student, ³Student, ⁴Student, ⁵Faculty

¹Information Science and Engineering,

¹PES Institute of Technology and Management, Shivamogga, India

Abstract: LawBuddy is proposed as an intelligent AI-based legal assistant aimed at solving the persistent challenges faced by those seeking justice—especially individuals unfamiliar with legal systems or wrongly accused. Traditional legal aid remains inaccessible, fragmented, and fails to support complex legal needs such as lawyer recommendation, secure document storage, or timely law updates. LawBuddy integrates AI-driven legal advice, expert lawyer matching, secure cloud-based proof storage, and real-time case and law monitoring in a single, easy-to-use platform. Utilizing Natural Language Processing (NLP), advanced Machine Learning (ML) models including BART and GPT, coupled with scalable cloud infrastructure, LawBuddy empowers users to understand legal scenarios, manage sensitive documents, stay updated, and connect with the right legal professionals. This paper details the design, functionality, technical workflow, and impact of LawBuddy, offering an inclusive and robust solution for democratizing legal assistance.

Index Terms - Artificial Intelligence, Legal Chatbot, Natural Language Processing, Cloud Storage, Case Tracking, LawTech, Machine Learning.

I. INTRODUCTION

Access to justice and legal support is often hindered for ordinary individuals due to high costs, procedural complexity, lack of knowledge, and difficulty finding reliable legal professionals. While technological advancements have attempted to address parts of this challenge, most solutions are incomplete, offering only basic chatbot functionality or simple databases. These fail to provide personalized guidance, secure documentation, or timely legal information, especially in a fast-evolving legal landscape.

AI-powered chatbots capable of advanced natural language understanding are revolutionizing domain expertise and service accessibility. Yet, legal systems pose unique requirements: subtle contextual reasoning, dynamic law changes, personal document handling, and sensitive decision support. LawBuddy is designed to address these needs holistically. It combines accurate legal advice, context-aware lawyer recommendations, cloud-secure evidence management, and continuous case tracking, with a focus on user simplicity and cost-effectiveness.

II. EXISTING SYSTEMS

Despite continued progress in legal technology, currently available platforms are limited in the following core aspects:

A. Generalist Chatbots:

Prevailing legal bots mostly use rule-based or FAQ approaches, offering generic, non-contextual answers that cannot address multi-party, sophisticated, or jurisdiction-specific queries.

B. Manual Lawyer Search:

Users must search and filter lawyers manually, often without insight into relevant expertise or suitability—leading to delays or wrong decisions.

C. Lack of Safe Proof Storage:

There are few, if any, options for integrated, encrypted, and user-friendly document/evidence storage; this exposes users to loss, tampering, or unauthorized access.

D. No Real-Time Case & Law Tracking:

Current solutions rarely notify users of new statutes or legal developments affecting their ongoing cases.

E. Complexity for Non-Experts:

Difficult interfaces and legal terminology make such systems unusable for laypersons, discouraging their use and perpetuating barriers to justice.

These deficiencies highlight the urgent need for an integrated, scalable, and secure AI-powered legal assistant like LawBuddy.

III. LITERATURE SURVEY**[1] A Survey on Legal Advisor Bot**

This paper offers an extensive overview of current legal advisor systems. It targets how Machine Learning is used to recognize and provide precise legal advice. The paper reveals the increasing need for legal bots—computer systems that use AI and are meant to provide individualized legal assistance. These robots seek to bridge the gap between legal professionals and public usability. The article discusses how such tools can assist users with little legal know-how by providing fast, comprehensible legal remedies. It also clarifies the development of legal tech, the boundaries of common law services, and how AI-based advisers can bridge them.

[2] LegalBot-AI Law Advisor Chatbot

This study presents LegalBot, a revolutionary AI chatbot designed to provide legal assistance with greater convenience and affordability to the masses. The platform is geared to provide users with instant and precise legal advice through Natural Language Processing and a legal knowledge base. LegalBot aims not only to assist people in comprehending their legal problems but also to support legal practitioners by enhancing the speed and accuracy of legal research. The article focuses on LegalBot's ease of use and its ability to make legal consultation easier, legal knowledge becoming widely accessible at low cost.

[3] AI Chatbot Application Development Assisting Legal Case Prediction

The purpose of this project is to assist new or novice lawyers with a tool that identifies legal case types through AI. It incorporates multiple Machine Learning algorithms, like BART, based on large legal datasets. The system is programmed to pose specific legal questions to users, analyze responses, and forecast the type of case based on input. This device is particularly useful to attorneys who would require rapid insights into efficiently categorizing cases. The article concentrates on the technical details of constructing and training the chatbot, and demonstrates how AI can be used in legal decision-making.

[4] A Survey on Legal Advisor Bot

Although this is a second citation of reference [1], it again supports the applicability of legal advisor bots in contemporary society. Bots are becoming more considered useful devices to make legal advice easily accessible and comprehensible. The second mention is evidence that the subject has received widespread interest among researchers.

[5] A Chatbot as a Digital Assistant for Legal Awareness

This paper describes an AI-based digital assistant chatbot that aims to enhance legal consciousness among its users. It is built to inform users of different legal matters in a straightforward and interactive manner. Leveraging NLP and a well-structured legal database, the chatbot provides explanations on legal matters in plain language. The system also has support for multiple languages and accessibility for users of diverse backgrounds, including disabled individuals. The article brings out the significance of digital assistants in filling the gap between the law and the common man, particularly in areas where legal literacy is a concern. It also features elements such as push notifications to inform users of pertinent law changes.

[6] LawBot (Your Friendly Legal Advisor)

This paper presents LawBot, a chatbot that aims to give users fast and precise answers to their law-related inquiries. It uses NLP and ML to interpret questions in natural language and provide suitable legal information as answers. LawBot touches upon a broad array of legal topics like contracts, employment, and family law. The prime goal is to "democratize" legal information so that it can be readily accessed by everyone irrespective of their background. The chatbot further provides an intuitive interface, providing ease of conversation between users and the system.

[7] Legal Advisor Bot

This work involves the development of a highly structured and smart legal assistant based on cutting-edge language models, such as OpenAI's GPT-3.5 and GPT-4, within the LangChain framework. It has a rich architecture including a chat interface, retrieval service, assistant API, and a strong language model. Legal texts like IPC sections, court judgments, and law amendments are utilized to train the model. The aim here is to ensure language-based legal interactions are fluent and correct. This strategy focuses equally on fluency in conversation and robust backend processing of intricate legal questions.

IV. PROPOSED SYSTEM

The LawBuddy project proposes an AI-powered legal assistant system designed to provide a comprehensive solution to the identified problems.

A. AI-Powered Legal Guidance

LawBuddy aims to utilize AI and Natural Language Processing (NLP) to effectively understand user queries and move beyond generic responses to provide instant, case-specific advice and information. By reading and analyzing user inquiries, the system identifies key legal issues, searching legal databases for relevant laws and past cases to suggest potential solutions. This approach is designed to give quick and insightful answers to legal questions.

The system's ability to provide tailored legal guidance is central to its purpose, leveraging advanced AI technology and NLP algorithms to help users navigate the complexities of the legal world. This is similar to other legal bots that aim to interpret and comprehend user queries seamlessly using sophisticated Natural Language Understanding (NLU) systems and offer accurate and nuanced responses to complex legal scenarios. The goal is to make legal matters more accessible and comprehensible by providing fundamental legal insights and information.

B. Smart Lawyer Recommendation

A key feature of LawBuddy is its design to simplify the process of finding legal representation by connecting users with the most suitable lawyer based on the specific type and domain of their legal case. This directly addresses the difficulty many users face in finding the right lawyer. The system is intended to recommend the best lawyer based on the case type and domain.

This functionality is similar to features found in other legal assistant systems, such as the "Lawyer Details Section" in LEGALBOT, which shows available lawyers along with their expertise, location, and contact details. Such features include a search bar to help users easily find and connect with lawyers. By providing this recommendation service, LawBuddy aims to bridge the gap users experience when they are unsure whom to approach for legal help.

C. Secure Cloud-Based Proof Storage

LawBuddy proposes employing secure cloud computing to manage and store legal documents and evidence, ensuring they are tamper-proof, protected from loss, and accessible from anywhere. This capability is vital for addressing user concerns about losing important legal proofs and the risks associated with manual storage. The system is designed so documents remain unchanged and protected from unauthorized modifications, keeping evidence reliable and secure.

Utilizing cloud storage allows users to save their legal files online and access them at any time. This secure storage solution prioritizes data security with measures like encryption protocols and adherence to data protection regulations. Implementing robust security measures to protect sensitive legal information and user data is a critical aspect of such legal technology, ensuring compliance with privacy laws.

D. Real-Time Law & Case Tracking

The system incorporates features for tracking the progress of legal cases using a timeline and keeping users informed by notifying them about changes in laws. This addresses the challenge of dynamic legal frameworks [Query] and the common problem of users being unaware of law changes that could affect their case. The cloud storage within LawBuddy is designed to store timeline information necessary for this case tracking.

By providing real-time updates on legal changes affecting their case, LawBuddy helps users stay current, as per their log entry. This mirrors capabilities in other systems, such as the proactive Legal Alerts feature in one legal advisor bot that monitors changes in relevant laws, regulations, and precedents to notify users of potential impacts. The need for legal advisor bots to continually adapt to evolving laws, requiring robust mechanisms for real-time updates and compliance monitoring, highlights the importance of this tracking feature.

E. User-Friendly & Cost-Effective

LawBuddy aims to make legal processes simpler through an intuitive interface [Query], designed to be a user-friendly AI-driven legal assistant for everyone. The goal is to provide a seamless and informative experience, facilitating efficient communication and information retrieval. The system intends to cater to diverse legal needs with precision and clarity through its interface.

Furthermore, LawBuddy seeks to reduce the financial burden associated with traditional legal consultation, offering a cost-effective alternative. This tackles the high cost barrier that limits access to legal services for many individuals. By making legal advice more accessible and affordable, LawBuddy contributes to democratizing access to legal expertise and guidance, providing valuable assistance and information.

By integrating these key features, LawBuddy provides a more complete and secure legal assistance experience compared to existing fragmented solutions.

IV. SYSTEM ARCHITECTURE

A. Technologies Used in LawBuddy

LawBuddy is developed with a mix of current, efficient, and scalable technologies to ensure smooth operation, real-time feedback, and data protection. The following are the primary technologies applied across layers of the system:

1. Cloud Storage & Database

- Firebase / Google Cloud / AWS S3: For safe storage of user-uploaded legal files such as images, PDFs, or text documents. Firebase / Google Cloud / AWS S3 services provide high availability, encryption, and backup.
- MongoDB: Used to store user profiles, lawyer information, chatbot dialogues, and other metadata for fast retrieval and analytics.

2. Machine Learning (ML)

- BART: Machine learning models assist in enhancing chatbot responses, forecasting attorney case types, and categorizing documents or attorney topics based on historical user interactions.
- Feedback Loop Learning: User interactions are processed to refine response accuracy continually through supervised learning.

3. Natural Language Processing (NLP)

- spaCy / NLTK / Transformers / OpenAI APIs: These NLP libraries and models are utilized to comprehend, interpret, and answer user queries in natural language. GPT-based models assist in context-aware and conversational legal advice.
- Text Classification & Entity Recognition: Utilized to recognize case types, legal entities, and keywords in user messages for accurate matching.

4. Frontend Technologies:

- React Native: It is a JavaScript framework for building user-friendly and interactive mobile chatbot interfaces. It handles user input, file uploads, and real-time rendering of chatbot responses on both Android and iOS platforms.
- HTML/CSS/JavaScript: These web technologies are utilized to design and style the user interface elements for responsiveness and accessibility across devices.

5. Backend Technologies

- Python (Django or Flask): Server-side development uses Python. Django or Flask manages the processing of user queries logic, communication with the NLP engine, and API routing.
- Node.js: Can be utilized for other server-side modules, particularly if including real-time services or light-weight microservices.

6. Authentication and Security

- JWT (JSON Web Tokens) / OAuth: For safe login and user identity management.
- SSL Encryption: It makes sure all user-to-server communication is encrypted.
- Access Control: Only genuine users can upload or access sensitive legal documents.

B. Technical Workflow of LawBuddy (Detailed)

Technical workflow indicates how LawBuddy handles a user's legal query from input to output. Below is a step-by-step overview of the internal process:

1. User Input and Query Submission

- The user opens the LawBuddy platform and enters a legal question into the chatbot interface (e.g., "I have been falsely accused of theft, what should I do?").
- The chatbot UI forwards this input to the backend as an API call.

2. Query Understanding using NLP

- The NLP engine analyzes the query to identify important information such as the nature of the issue (e.g., criminal, civil, employment), individuals involved, and scenario.
- Named Entity Recognition (NER) and intent identification are used to comprehend the purpose behind the query.

3. Legal Knowledge Retrieval

- The system retrieves the corresponding laws, sections, and tips based on the analyzed query from its legal database or trained model.
- If previous comparable instances are memorized, the system retrieves those instances as advice.

4. Lawyer Recommendation Module

- The system determines the domain (for example, property dispute, criminal defense) and recommends relevant lawyers from the database.
- Filters like location, specialization, and experience can be used to give a customized match.

5. Proof Upload and Secure Storage

- Users can upload FIRs, contracts, or statements.
- These documents are securely stored in the cloud and accessible only to registered users or forwarded to a lawyer based on user approval.

6. Law and Case Update Notifications

- The system periodically scans law databases or APIs for any legal updates applicable to current user queries.
- When updates are found (e.g., changes in IPC sections), users are alerted with abstracts.

7. Response Generation and Learning

- The chatbot generates a final response based on the retrieved data, legal advice, and lawyer proposals. At the same time, user interactions are stored for model training, optimizing response precision over time with ML.

8. Continuous Improvement and Feedback

- Users can rate responses or offer feedback.
- The feedback is utilized to retrain the ML model, enhance chatbot comprehension, and modify future recommendations accordingly.

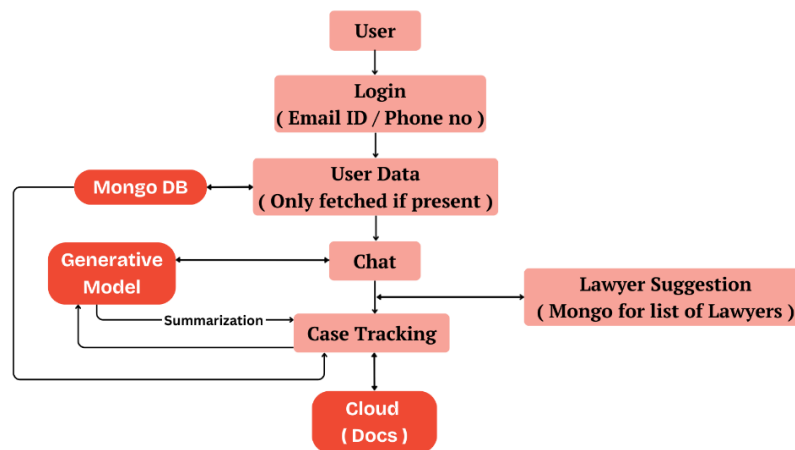


Figure 1: Proposed System Architecture

This figure illustrates the complete flow of how a user interacts with the system and how the backend processes the requests. The process begins with the user logging in using their email ID or phone number. Once logged in, the system checks the MongoDB database to fetch user data if it already exists. The user then engages with the chat interface, which serves as the central hub of interaction. Through this, queries are processed and directed towards different modules. If the user seeks legal advice, the query is passed to the generative model, which interprets the context, performs summarization if necessary, and provides meaningful responses. Simultaneously, the lawyer suggestion module uses MongoDB to retrieve a list of lawyers that match the user's case type and requirements. For ongoing cases, the case tracking module helps users monitor progress by storing and displaying updates. Any legal documents uploaded by the user are securely stored in the cloud storage, which also integrates with case tracking to keep documents organized. Together, this workflow ensures that LawBuddy delivers an intelligent, secure, and seamless legal assistance experience by combining chat-based interaction, AI-powered processing, lawyer recommendations, and cloud-based document handling.

V. BENEFITS OF LAWBUDDY

1. Instant Legal Assistance

LawBuddy offers instant legal advice via a chatbot, enabling users to receive answers to their legal questions round the clock—without having to go see a lawyer at once.

2. Intuitive Interface

With a minimalistic, chatbot-driven interface, even those with no technical or legal education can effortlessly engage, pose queries, and grasp legal guidance.

3. Lawyer Recommendations Tailored to Individual Needs

Depending on the user's case type (such as civil, criminal, or labor disputes), LawBuddy recommends suitable lawyers, saving the user time and confusion in the search for appropriate legal assistance.

4. Cloud-Based Document Storage in Secure Environments

Users are able to upload legal evidences (such as FIRs, agreements, photographs), which are stored safely in the cloud, so they cannot be lost, destroyed, or altered.

5. Real-Time Legal Updates

LawBuddy tracks changes in laws automatically and alerts users if any new developments might have an impact on their case, keeping them updated.

6. Affordable Legal Support

LawBuddy minimizes the necessity of regular visits to lawyers and makes legal support cheaper, primarily for individuals lacking adequate legal service access.

7. Enhanced Legal Awareness

The platform informs users of their legal rights, obligations, and possible remedies, empowering students, workers, entrepreneurs, and ordinary citizens.

8. Accessibility and Availability

As an online AI tool, LawBuddy is accessible 24 hours a day, 7 days a week, from anywhere via phone or computer with internet connectivity.

9. Assists New Lawyers and Legal Students

LawBuddy can assist law students or beginner lawyers too by forecasting case types and demonstrating applicable laws, functioning as a training assistant.

10. Privacy and Data Protection

It employs secure authentication and encrypted storage to safeguard confidential legal information, keeping users confidential.

VI. RESULTS

LawBuddy is bound to revolutionize the manner in which people address and handle legal matters. With its AI-based chatbot, it offers rapid and precise legal answers, and users can receive timely assistance without delayed formal consultations. The platform also suggests appropriate lawyers according to the type of case of the user and facilitates them with faster and more convenient access to the correct legal professional. With cloud storage of documents, users can upload and securely store legal evidence in a way that they are safely kept from loss or interference.

Moreover, LawBuddy monitors changes in legal regulations and rules and provides users with information about changes that could affect their cases. This helps users to remain updated and make informed legal choices. One of the most significant benefits of the system is raised legal awareness—users, such as students, employees, and entrepreneurs, develop a better understanding of their rights and obligations. LawBuddy also enhances its accuracy and intelligence over time by learning from user interactions, providing more pertinent and personalized legal advice. Finally, LawBuddy seeks to expedite legal assistance, enhance it through intelligence, and make it available for everyone.

VII. CONCLUSION

LawBuddy is an AI-based legal chatbot that aims to make and improve the way people engage with legal systems. It fills the gap between legal professionals and ordinary users with instant legal guidance, lawyer referrals, safe cloud storage of documents, and updating of laws in real-time—all within a smart and intuitive chatbot interface. Through the incorporation of cutting-edge technologies such as Artificial Intelligence, Machine Learning, Natural Language Processing, and Cloud Computing, LawBuddy provides legal support in a more accessible, dependable, and affordable way. It enables users—particularly those with limited knowledge of law—to grasp their rights, organize their legal documents, and address legal concerns confidently. By its ongoing learning ability and forward-thinking nature, LawBuddy has the potential to revolutionize the future of legal assistance to become quicker, more intelligent, and more inclusive for society.

REFERENCES

- [1] Kalpitha Somayaji and Collaborators, “A Survey on Legal Advisor Bot”, IJCRT 2024
- [2] Bhavika Pardhi and Collaborators, “LegalBot-AI Law Advisor Chatbot”, IJNRD 2024
- [3] Chinmay Jyothi Hazarika and Collaborators, “AI Chatbot Application Development Assisting Legal Case Prediction”, JCRENG 2024
- [4] Dr. Ambika P R and Collaborators, “A Chatbot as a Digital Assistant for Legal Awareness”, JETIR 2025
- [5] Dr. Snehal S and Collaborators, “LawBot (Your Friendly Legal Advisor)”, IJNRD 2024
- [6] Shyla N and Collaborators, “Legal Advisor Bot”, JETIR 2024