

Digital Assistant for Legal Awareness and Designing a KYR(Know-Your-Rights) framework in India

A PROJECT REPORT

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Under the guidance of,

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PRESIDENCY UNIVERSITY

SCHOOL OF COMPUTER SCIENCE ENGINEERING

CERTIFICATE

This is to certify that the Project report "**Digital Assistant for Legal Awareness and Designing a KYR(Know-Your-Rights) framework in India**" being submitted by "P SAITEJA, VISHNU PRIYA S, VAISHNAVI A L, SUJAN T" bearing roll number(s) "20211COM0071, 20211COM0093, 20211COM0074, 20211COM0096" in partial fulfilment of the requirement for the award of the degree of Bachelor of Technology in Computer Engineering is a bonafide work carried out under my supervision.

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DECLARATION

We hereby declare that the work, which is being presented in the project report entitled **Digital Assistant for Legal Awareness and Designing a KYR(Know-Your-Rights)** framework in India in partial fulfilment for the award of Degree of **Bachelor of Technology in Computer Engineering**, is a record of our own investigations carried under the guidance of **Dr Sudha P, Associate Professor, School of Computer Science Engineering & Information Science, Presidency University, Bengaluru.**

We have not submitted the matter presented in this report anywhere for the award of any other Degree.

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ABSTRACT

Legal awareness is a fundamental aspect of an equitable and just society, enabling individuals to safeguard their rights and fulfill their legal responsibilities. *Know Your Legal Rights* is an initiative aimed at educating individuals about essential legal principles in areas such as constitutional rights, consumer protection, workplace regulations, cyber laws, property rights, contract law, family law, and criminal justice. Many people lack access to accurate legal information, leading to exploitation, injustice, and an inability to seek appropriate legal remedies.

This initiative seeks to simplify complex legal concepts and present them in an accessible manner through real-world examples, case studies, and practical guidelines. It provides insights into common legal issues such as unfair employment practices, online fraud, contract disputes, tenant rights, and criminal offenses, empowering individuals to take informed actions. Additionally, it highlights legal avenues available for dispute resolution, including mediation, arbitration, and litigation, ensuring individuals know when and how to seek legal assistance.

By fostering legal literacy, *Know Your Legal Rights* promotes an informed and proactive society where individuals confidently assert their rights, recognize legal violations, and contribute to a more just and transparent legal system. Understanding legal rights not only helps individuals protect themselves but also strengthens democratic principles, social justice, and accountability within communities.

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CHAPTER-1

INTRODUCTION

1.1 Overview

Legal awareness empowers individuals to understand and protect their rights in various aspects of life. *Know Your Legal Rights* focuses on educating people about fundamental legal principles, including constitutional rights, consumer protection, workplace laws, and cyber laws. Many individuals face legal challenges without knowing their options, making legal literacy crucial for preventing exploitation and ensuring justice.

This initiative simplifies complex legal concepts, provides real-life examples, and equips individuals with the knowledge to recognize violations and seek appropriate remedies. A well-informed society fosters fairness, accountability, and stronger democratic values.

1.2 Statement of Problem

Many individuals lack awareness of their legal rights, leaving them vulnerable to exploitation, unfair treatment, and legal complications. Complex legal language and limited access to simplified legal information make it difficult for people to understand and exercise their rights effectively. This lack of knowledge affects various aspects of life, including consumer rights, workplace laws, and cyber security.

Know Your Legal Rights aims to bridge this gap by providing clear, accessible legal information, helping individuals recognize violations, take informed action, and seek justice when needed.

- **Solution Requirement**

We analyzed the problem statement related to legal awareness and found the feasibility of providing a solution to this issue. After reviewing various research papers and existing legal resources, we identified that accessible, simplified legal information is essential for empowering individuals. The next step was gathering relevant legal data, which includes laws, rights, and regulations across different areas such as consumer rights, workplace laws, and constitutional rights. We then categorized the information for easy understanding, ensuring it was relevant to a wide audience. Based on this, we concluded that the most effective solution would be to create a platform offering balanced, easy-to-understand legal content without bias, thus making legal rights clear and accessible to all.

- **Solution Constraints**

We analyzed the solution in terms of cost, speed of processing, requirements, level of expertise, and availability of equipment's.

1.3 Importance of Legal Rights

The project's methodology emphasizes gathering accurate and up-to-date legal information and simplifying it for practical use. This will ensure that the legal content is relevant, clear, and accessible. Legal information will be sourced from authoritative resources, and tools like online platforms and mobile apps will be used to present this information effectively. The goal is to make complex legal concepts understandable through user-friendly platforms, ensuring that individuals can make informed decisions, recognize legal violations, and assert their rights when necessary.

1.4 Objectives of the Project

One of the project's significant innovations is its user-friendly platform, which will allow individuals to easily access and understand their legal rights. Developed using frameworks like Flask or Django, the platform will provide clear explanations, legal guides, and real-life case studies in an easily navigable format. The objective is to break down legal jargon into everyday language, making the system accessible to people from all walks of life. This emphasis on simplicity and accessibility ensures that the platform can be used by individuals with varying levels of legal knowledge and technical expertise.

1.5 Data Sources and AI Integration

To ensure accuracy and accessibility, *Know Your Legal Rights* gathers information from reliable sources, including government portals, legal databases, and expert-authored legal guides. Cloud-hosted solutions such as AWS or Google Cloud enhance scalability, allowing users from various regions to access legal information efficiently. Additionally, AI-driven tools can assist in providing personalized legal recommendations based on user queries. Offline functionalities will also be explored to support individuals in areas with limited internet access, ensuring widespread reach and usability.

1.6 Social and Legal Impact

Legal awareness plays a crucial role in creating a fair and just society. By educating individuals about their rights and responsibilities, this initiative helps reduce instances of legal violations, workplace exploitation, and consumer fraud. It empowers citizens to take informed actions, fostering a culture of legal compliance and accountability. Moreover, increased legal literacy enhances civic participation and strengthens the democratic process by ensuring individuals can effectively engage with the legal system.

1.7 Role of Real-Time Data in Legal Awareness

The legal landscape is constantly evolving with new laws, amendments, and judicial interpretations. To keep users informed, *Know Your Legal Rights* integrates real-time updates from legal databases and government sources. AI models can analyze legal trends, provide insights on common legal issues, and help users navigate complex legal scenarios. Regular updates and expert inputs will ensure that the platform remains relevant and accurate.

1.8 Benefits to Individuals and Society

The project benefits individuals by providing easy access to crucial legal information, reducing dependency on costly legal consultations for basic inquiries. It promotes social justice by ensuring that people are aware of their rights, leading to a more informed and legally empowered society.

Additionally, collaboration with legal professionals, educators, and advocacy groups ensures that the platform remains practical, user-friendly, and aligned with real-world legal needs.

1.9 Vision for the Future

Know Your Legal Rights aims to revolutionize legal awareness by leveraging technology to make legal information accessible to all. Future developments may include multilingual support, AI-powered chatbots for instant legal guidance, and community forums for legal discussions. By continuously evolving, the project aspires to build a legally informed society where individuals can confidently exercise their rights and contribute to a more just world.

1.10 Software Requirement

- **Programming & Frameworks:** Python, Flask/Django
- **Data Processing:** Pandas, Numpy
- **Machine Learning & AI:** Scikit-learn, OpenAI API (for legal question-answering)
- **Database Management:** SQLAlchemy, PostgreSQL
- **User Interface:** Jinja, HTML/CSS
- **Deployment & APIs:** AWS, Google Cloud, Government Legal APIs
- **Development Tools:** PyCharm IDE, Postman (for API testing)

CHAPTER-2

LITERATURE SURVEY

2.1 Overview

Legal awareness has evolved significantly, with technology playing a vital role in educating individuals about their rights. Various methods, including traditional legal education, online legal resources, and AI-driven legal assistance, have been developed to improve access to justice. This literature survey examines key approaches, their advantages, limitations, and relevance to the *Know Your Fundamental Indian Legal Rights* initiative.

2.2 Traditional Legal Awareness Methods

Traditional legal education relies on textbooks, legal literacy programs, and community awareness campaigns.

- **Advantages:** Provides in-depth legal knowledge and promotes awareness through structured learning.
- **Limitations:** Limited reach, slow dissemination, and reliance on legal professionals for interpretation.

2.3 Government and Legal Aid Services

Legal aid services and government awareness programs offer free legal assistance to individuals.

- **Advantages:** Ensures access to justice for underprivileged individuals.
- **Limitations:** Often understaffed, slow response times, and limited accessibility in rural areas.

2.4 Online Legal Resources and Portals

Web-based legal databases and portals provide quick access to legal information.

- **Advantages:** Instant access to laws, judgments, and legal documents.
- **Limitations:** Complex legal jargon may be difficult for the general public to understand.

2.5 AI and Chatbot-Based Legal Assistance

AI-powered tools help individuals understand their rights by providing automated legal guidance.

- **Advantages:** Real-time responses and simplified explanations tailored to user queries.

- **Limitations:** Limited to predefined legal topics and lacks human judgment for complex cases.

2.6 Integration of Real-Time Legal Updates

Legal systems are constantly evolving, requiring real-time updates to keep individuals informed.

- **Advantages:** Ensures users stay up to date with the latest laws and amendments.
- **Limitations:** Relies on timely data sources, which may vary in reliability and accuracy.

2.7 Mobile and Cloud-Based Legal Awareness Platforms

Mobile apps and cloud-based solutions make legal information more accessible.

- **Advantages:** Easy access to legal knowledge for individuals in remote areas.
- **Limitations:** May provide general advice that lacks case-specific legal guidance.

2.8 Combined Approaches

A hybrid model integrating traditional legal education, AI-driven assistance, and real-time legal updates provides a well-rounded solution for legal awareness.

2.9 Conclusion

The *Know Your Fundamental Indian Legal Rights* initiative builds on the strengths of these methods, particularly leveraging technology to address their limitations. By adopting a holistic approach, it aims to create an accessible, scalable, and effective legal awareness platform for all.

CHAPTER-3

RESEARCH GAPS OF EXISTING METHODS

3.1 Traditional Legal Education

Traditional legal education methods, such as classroom learning and legal literacy campaigns, have been fundamental in spreading awareness. However, these approaches often fail to reach a broader audience due to accessibility issues, complex legal jargon, and a lack of real-time updates. Additionally, traditional methods do not provide personalized legal guidance tailored to an individual's specific situation. The research gap here lies in the need for more dynamic, interactive, and easily accessible legal education platforms that cater to people from all backgrounds.

3.2 Government and Legal Aid Services

Government legal aid services play a crucial role in providing free legal assistance, yet they are often understaffed, overburdened, and difficult to access in remote areas. Many people remain unaware of their right to legal aid, and bureaucratic hurdles further limit its effectiveness. The research gap in this area lies in improving the efficiency, reach, and awareness of government-supported legal assistance through digital transformation and proactive outreach programs.

3.3 Online Legal Resources and Portals

While online legal portals provide easy access to laws, judgments, and legal articles, they often use complex legal terminology that the general public may struggle to understand. Additionally, most online resources do not provide case-specific advice or interactive guidance. The research gap here is in the development of simplified, user-friendly legal resources that break down laws into easily digestible content and offer interactive guidance for individuals seeking legal assistance.

3.4 AI and Chatbot-Based Legal Assistance

AI-powered legal chatbots and virtual assistants have emerged as a solution for quick legal guidance. However, these systems are currently limited in their ability to interpret complex legal cases, provide legally binding advice, and ensure data privacy. The research gap in this area is the need for more advanced AI models that can understand context, provide relevant legal information accurately, and ensure ethical data handling.

3.5 Integration of Real-Time Legal Updates

Legal frameworks evolve constantly with new laws, amendments, and judicial rulings. Many existing legal awareness platforms struggle to provide real-time updates, leaving individuals with outdated or incomplete information. The research gap here lies in developing a seamless system for continuous legal updates, ensuring that individuals always have access to the latest legal information relevant to their rights.

3.6 Mobile and Cloud-Based Legal Awareness Platforms

Mobile and cloud-based legal awareness platforms have made legal knowledge more accessible, particularly in remote areas. However, these systems often provide generalized legal information that may not apply to specific individual cases. The research gap in this area is in the development of personalized mobile and cloud-based platforms that can offer customized legal guidance based on user-specific queries and circumstances.

3.7 Combined Approaches

A hybrid approach that integrates traditional legal education, online resources, AI-driven assistance, and real-time legal updates has the potential to significantly improve legal awareness. However, the challenge lies in effectively integrating these diverse methods into a single, user-friendly platform while ensuring accessibility and accuracy. The research gap here is in creating a seamless, scalable solution that combines multiple approaches to deliver legal knowledge in a simplified and interactive manner.

CHAPTER-4

PROPOSED METHODOLOGY

4.1 Overview

The proposed methodology for the *Know Your Fundamental Indian Legal Rights* initiative integrates digital tools, AI-based legal assistance, and a user-friendly interface to provide easy access to legal knowledge. The system is designed to address current challenges such as lack of awareness, complex legal language, and difficulty in accessing legal aid. This section details the steps, components, and technologies employed to create an efficient and scalable legal awareness platform.

4.2 System Components

4.2.1 Data Collection and Processing

- **Sources of Legal Information:** Real-time legal updates, case laws, constitutional rights, and government legal aid information are gathered from official portals, legal databases, and APIs.
- **Processing Steps:** The collected legal data is structured and simplified using natural language processing (NLP) to ensure clarity and accessibility. Legal jargon is translated into easy-to-understand terms.
- **Tools Used:** Python, NLP libraries (NLTK, SpaCy), and legal data APIs to preprocess and categorize legal information.

4.2.2 AI-Powered Legal Assistance

- **Algorithm Selection:** Machine learning models, such as NLP-based question-answering systems, are used to provide legal guidance based on user queries.
- **Advantages:** AI-driven chatbots offer real-time assistance and personalized legal information.
- **Implementation:** TensorFlow and OpenAI's GPT models help in training legal assistants to interpret legal queries and provide accurate responses.

4.2.3 User Interface Development

- **Frontend Technologies:** HTML, CSS, JavaScript, and React are used to develop an intuitive and responsive web platform where users can ask legal questions and access rights-based information.
- **Backend Framework:** Flask or Django is used to integrate AI models and manage legal data.
- **Features:** The interface includes search functionality, interactive Q&A chatbots, and visual guides on fundamental rights.

4.2.4 Cloud and Hosting Services

- **Cloud Platforms:** AWS, Google Cloud, or Azure is used to ensure high availability and real-time updates.
- **Database Management:** SQL and NoSQL databases store legal resources and previous user queries for personalized assistance.

4.2.5 Integration and Testing

- **Integration:** The AI model, legal database, and user interface are integrated into a single, interactive system.
- **Testing:** The platform is rigorously tested with legal experts and user feedback to ensure accuracy and ease of use.

4.3 Functional Requirements

Functional requirements define the core features of the legal awareness system. These include:

- **Input:** Users can enter legal queries, browse legal topics, or seek guidance on specific rights.
- **Processing:** The AI system analyzes the query, searches legal databases, and retrieves the most relevant information.
- **Output:** Users receive simplified legal explanations, references to laws, and actionable steps they can take.

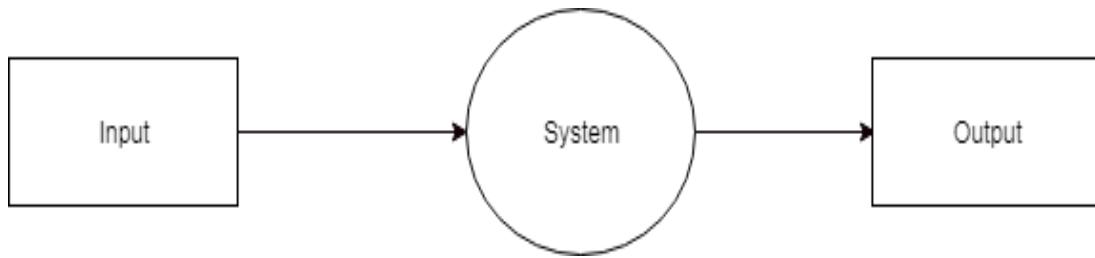


Figure 4.3.1 The figure represents a system where an input is processed to produce an output.

Figure 4.3.1 shows that it indicates the basic flow of data in the system. In this System Input is given equal importance as that for Output.

- Input: Here input to the system is giving values sensor data.
- System: In system it shows all the details are processed.
- Output: Output of this system is it shows the result.

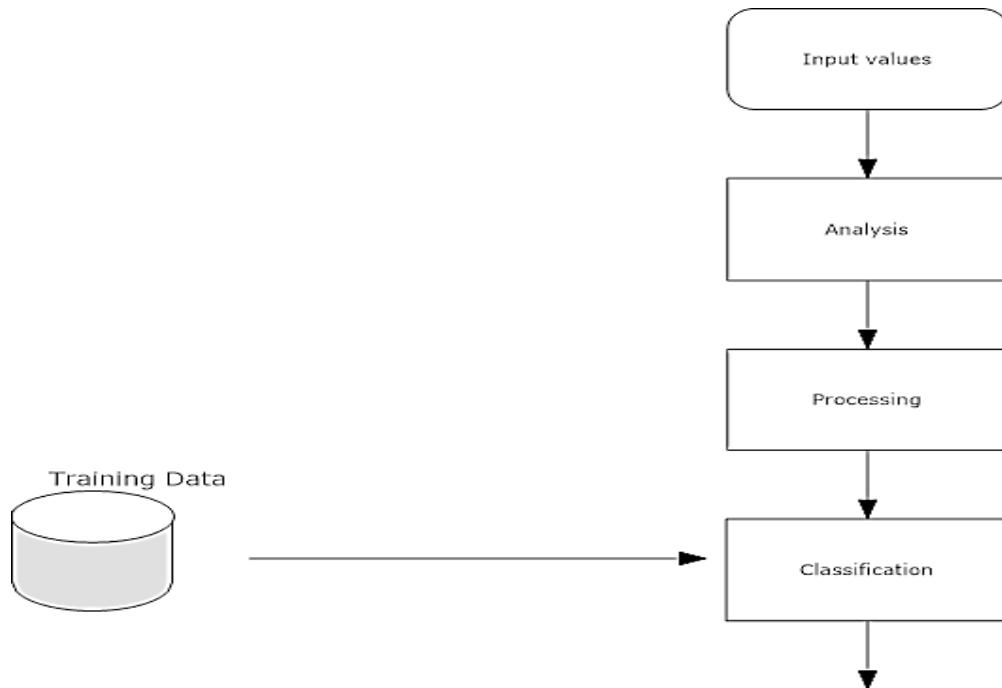


Figure 4.3.2 DFD-2

Figure 4.3.2 gives more in-and-out information about the system. The system gives detailed information about the procedure taking place. It will get to know what kind of information, as shown in Figure 4.3.2.

4.4 Use Case Diagram

The purpose of a use case diagram is to capture the dynamic aspect of a system. Use case diagrams are used to gather the requirements of a system including internal and external influences. These requirements are mostly design requirements. Hence, when a system is analyzed to gather its functionalities, use cases are prepared and actors are identified as shown in fig 4.4

In the Unified Modelling Language (UML), a use case diagram can summarize the details of your system's users (also known as actors) and their interactions with the system. To build one, you'll use a set of specialized symbols and connectors. effective use case diagram can help your team discuss and represent:

- Scenarios in which your system or application interacts with people, organizations, or external systems.
- Goals that your system or application helps those entities (known as actors) achieve.
- The scope of your system.

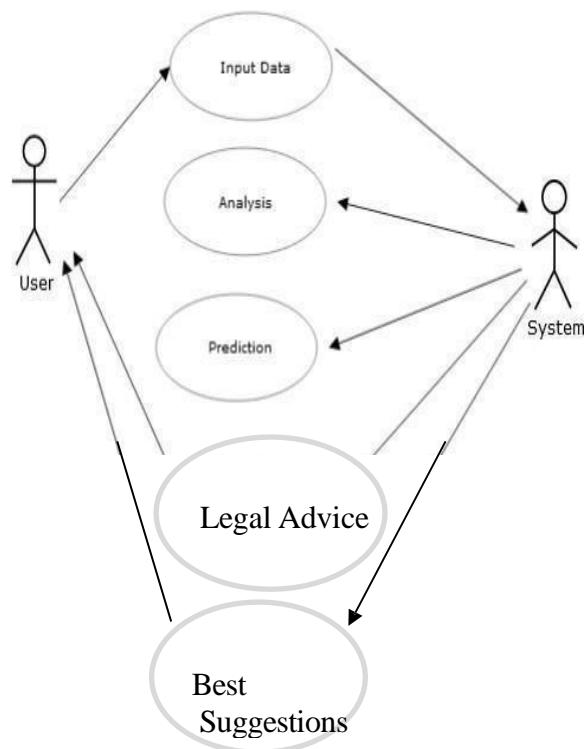


Figure 4.4: Use case diagram

4.5 Workflow

Step 1: Data Acquisition

Legal data is collected from government portals, legal aid websites, and case law databases. The system ensures updates to stay relevant.

Step 2: Data Processing

The legal text is processed, categorized, and simplified to improve accessibility. NLP techniques help extract key points from complex laws.

Step 3: AI-Based Legal Assistance

The machine learning model is trained to interpret user queries and provide precise legal information using case studies and precedents.

Step 4: User Interaction

Users interact with the system via a web interface, entering queries and receiving personalized legal guidance. A chatbot assists in answering common legal questions.

Step 5: Deployment and Monitoring

The platform is deployed on a cloud service to ensure high availability and continuous improvement. User interactions help refine the AI model for better accuracy.

4.6 Benefits

4.6.1 Accessibility and Inclusivity

The cloud-based system ensures that legal knowledge is accessible to individuals across urban and rural areas, regardless of educational background.

4.6.2 Simplification of Legal Language

By breaking down complex legal terms into understandable content, the platform empowers users to understand their rights effectively.

4.6.3 Empowering Citizens

With AI-driven legal guidance, individuals gain the knowledge needed to make informed legal decisions, seek justice, and exercise their fundamental rights.

CHAPTER-5 OBJECTIVES

5.1 Improve Legal Awareness

The primary objective of the *Know Your Fundamental Indian Legal Rights* project is to enhance legal awareness by providing clear, accessible, and data-driven information on fundamental rights. The system simplifies complex legal terminology and presents it in an understandable format, ensuring that every citizen, regardless of their legal background, can comprehend their rights and responsibilities.

5.2 Integrate Real-Time and Historical Legal Data

The project aims to integrate real-time updates from legal sources, such as court rulings and government policies, with historical legal precedents. By combining these data sources, users can receive accurate, timely, and context-specific legal information that evolves with legislative changes.

5.3 Promote Legal Empowerment and Justice Accessibility

A key objective is to ensure that individuals, especially those from marginalized communities, have access to legal knowledge that can help them seek justice. By offering AI-driven guidance and interactive tools, the system empowers users to make informed legal decisions and take necessary actions.

5.4 Develop a User-Friendly Legal Resource Platform

The project emphasizes creating an intuitive, easy-to-navigate web interface using HTML, CSS, and JavaScript. This ensures that individuals, regardless of their technical proficiency, can search for legal information, interact with AI-driven chatbots, and access essential legal rights seamlessly.

5.5 Ensure Scalability and Remote Accessibility

By leveraging cloud technologies such as AWS or Google Cloud, the platform ensures accessibility across various regions, including rural and underserved communities. The scalable architecture allows legal professionals, students, and general users to benefit from the system without performance issues.

5.6 Enhance Legal Decision-Making with AI

By integrating machine learning and natural language processing (NLP), the system aims to provide users with clear legal explanations, case law references, and actionable steps. Predictive analytics help users understand the legal implications of various scenarios and make informed decisions.

5.7 Reduce Dependence on Costly Legal Assistance

Legal consultations can be expensive and inaccessible for many individuals. This project seeks to bridge that gap by offering free, AI-assisted legal guidance, reducing the need for costly initial legal consultations and ensuring that fundamental rights are accessible to all.

5.8 Enable Continuous Improvement and Legal Updates

The system is designed to evolve with new legal amendments, court judgments, and policy changes. By implementing real-time updates and continuous learning from user interactions, the platform remains relevant and up-to-date.

5.9 Encourage Responsible Legal Awareness and Social Equity

The project supports sustainable and ethical legal awareness initiatives by ensuring that accurate, unbiased, and verified legal information is available to the public. This aligns with global efforts to promote justice, fairness, and equity in society.

These objectives address the legal, social, and technological challenges of modern legal awareness, ensuring the project's effectiveness in real-world applications.

CHAPTER-6

SYSTEM DESIGN & IMPLEMENTATION

6.1 Overview

The *Know Your Fundamental Indian Legal Rights* system is designed to provide individuals with accessible, real-time legal information through a structured, interactive, and data-driven platform. The system architecture includes multiple layers: data acquisition, legal knowledge processing, user interaction, and cloud deployment. This section details the design considerations, system components, and implementation strategies.

6.2 System Architecture

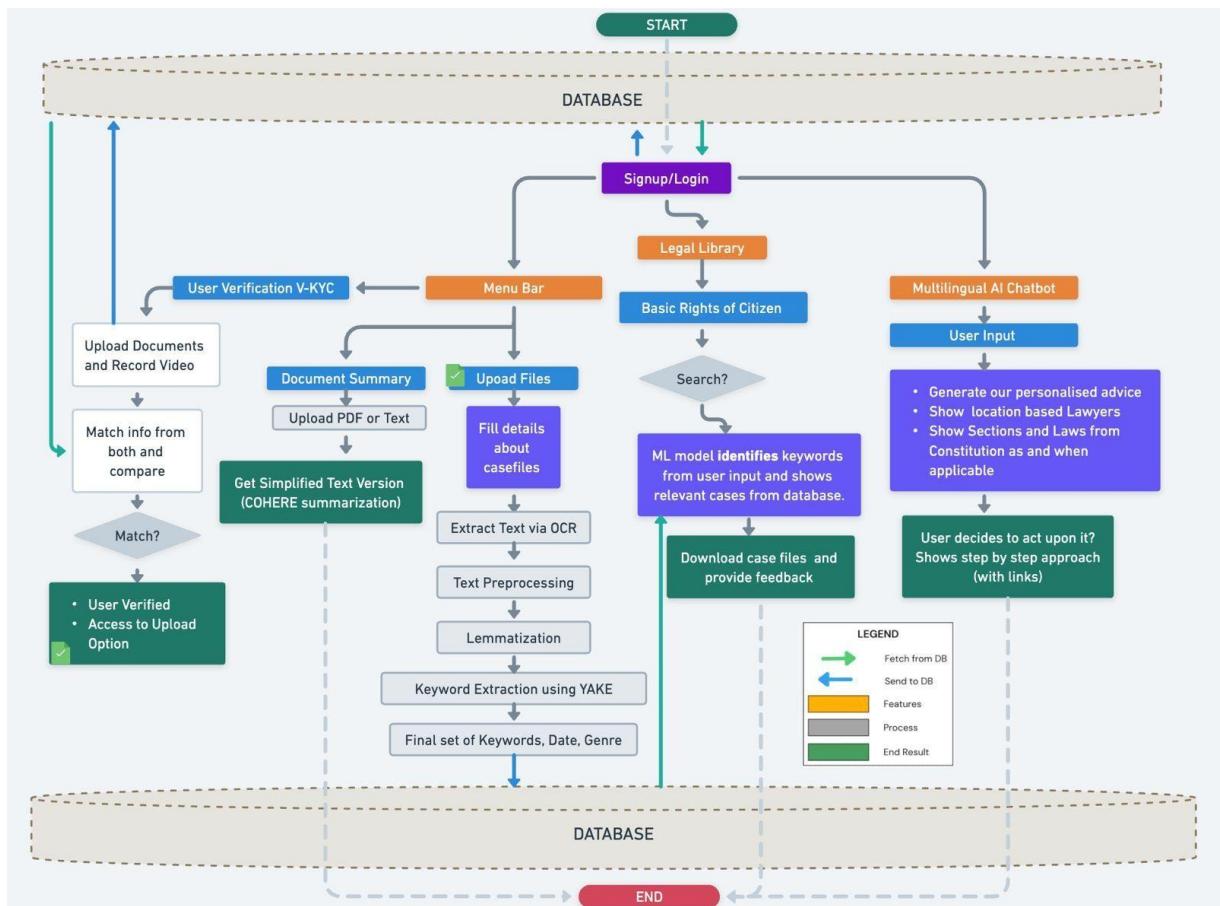


Figure 6.1 System Architecture

The architecture is divided into the following layers as shown in fig 6.1:

6.2.1 Data Acquisition Layer

- **Components:**
 - APIs for real-time legal updates (e.g., Supreme Court, government portals).
 - Historical legal case data and fundamental rights documentation.
- **Process:**
 - Data is sourced from APIs and structured in a database (MySQL/SQLite).
 - Preprocessing tools (Pandas, NumPy) ensure data accuracy and eliminate inconsistencies.

6.2.2 Legal Knowledge Processing Layer

- **Machine Learning Integration:**
 - NLP models (such as BERT) extract legal insights from case law and government documents.
 - Data is categorized based on fundamental rights for easy retrieval.
- **Processing and Validation:**
 - Python and Scikit-Learn facilitate legal text processing.
 - Accuracy is ensured through legal expert validation.

6.2.3 User Interaction Layer

- **Frontend Technologies:**
 - HTML, CSS, and JavaScript ensure a responsive and accessible interface.
 - Users can search for legal topics and get AI-driven explanations.
- **Backend Framework:**
 - Flask/Django handles request processing and interactions with the knowledge base.
 - API endpoints deliver real-time legal information dynamically.

6.2.4 Data Management and Cloud Deployment Layer

- **Database:**
 - MySQL/SQLite stores legal case references and updated legal data.
- **Cloud Platforms:**
 - AWS or Google Cloud ensures scalability and remote access.
 - The system logs user queries and interactions for continuous learning.

6.3 Implementation

6.3.1 Data Preprocessing

- **Data Cleaning:** Filters out outdated or irrelevant legal content.
- **Feature Selection:** Focuses on fundamental rights, legal precedents, and essential laws.
- **Tools Used:** Python libraries (Pandas, NumPy, NLTK) for data processing.

6.3.2 Legal Information Processing

- **Algorithm Selection:**
 - NLP models are chosen for extracting key legal points and summarizing rights.
- **Validation Techniques:**
 - AI-driven summaries are cross-checked with official legal documents.

6.3.3 User Interface Development

- **Frontend Features:**
 - Intuitive search bar for legal queries.
 - Interactive legal Q&A section using JavaScript frameworks (React, Vue).
- **Backend Features:**
 - Flask/Django for server-side operations.
 - API integrations fetch real-time legal updates.

6.3.4 Deployment and Testing

- **Cloud Deployment:**
 - Hosted on AWS/Google Cloud for high availability.
 - Security measures include encrypted access and authentication layers.
- **Testing:**
 - **Functional Testing:** Ensures all legal queries return accurate responses.
 - **Performance Testing:** Evaluates response times under heavy load.

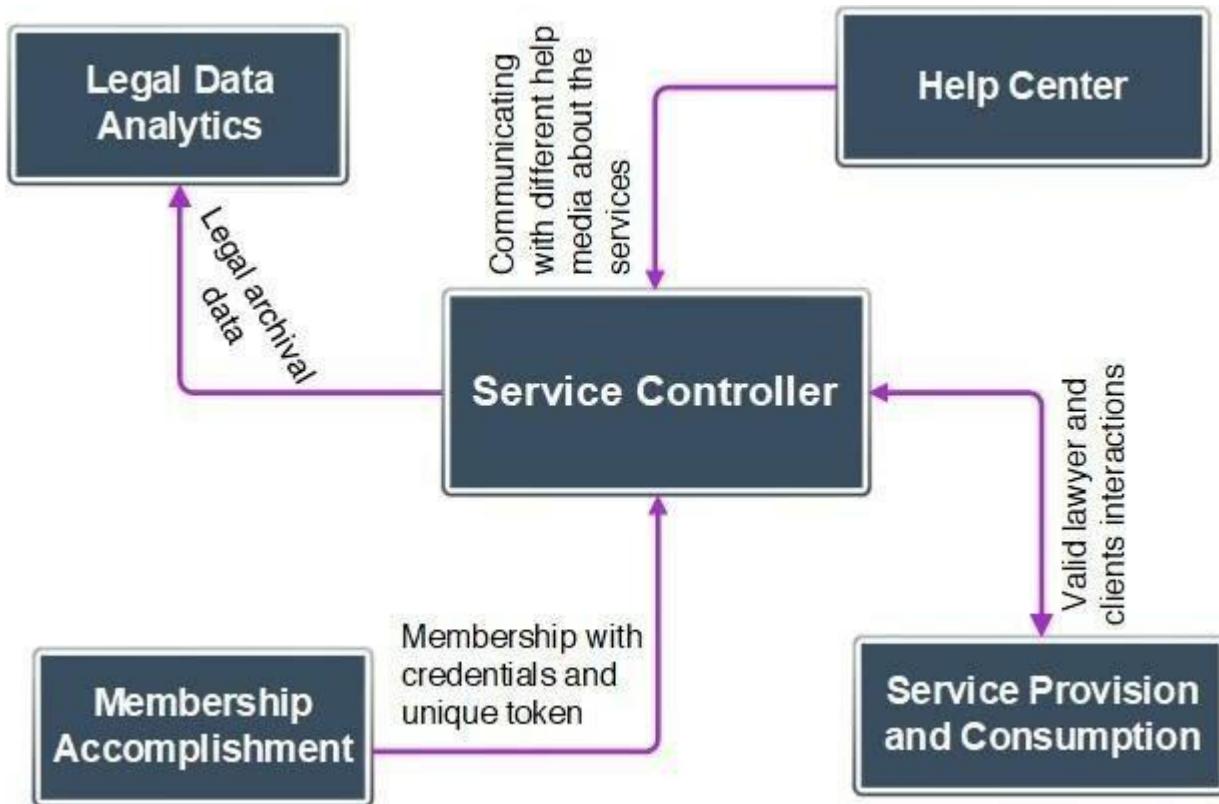


Figure 6.2 Deployment Diagram

6.4 Sequence Diagram

Sequence diagrams are a popular dynamic modeling solution in UML because they specifically focus on lifelines, or the processes and objects that live simultaneously, and the messages exchanged between them to perform a function before the lifeline ends. They are the most commonly used Interaction diagrams. The sequence diagram represents the flow of messages in the system and is also termed as an event diagram. It helps in envisioning several dynamic scenarios. It portrays the communication between any two lifelines as a time-ordered sequence of events, such that these lifelines took part in the run time. In UML,

the lifeline is represented by a vertical bar, whereas the message flow is represented by a vertical dotted line that extends across the bottom of the page. It incorporates iterations as well as branches.

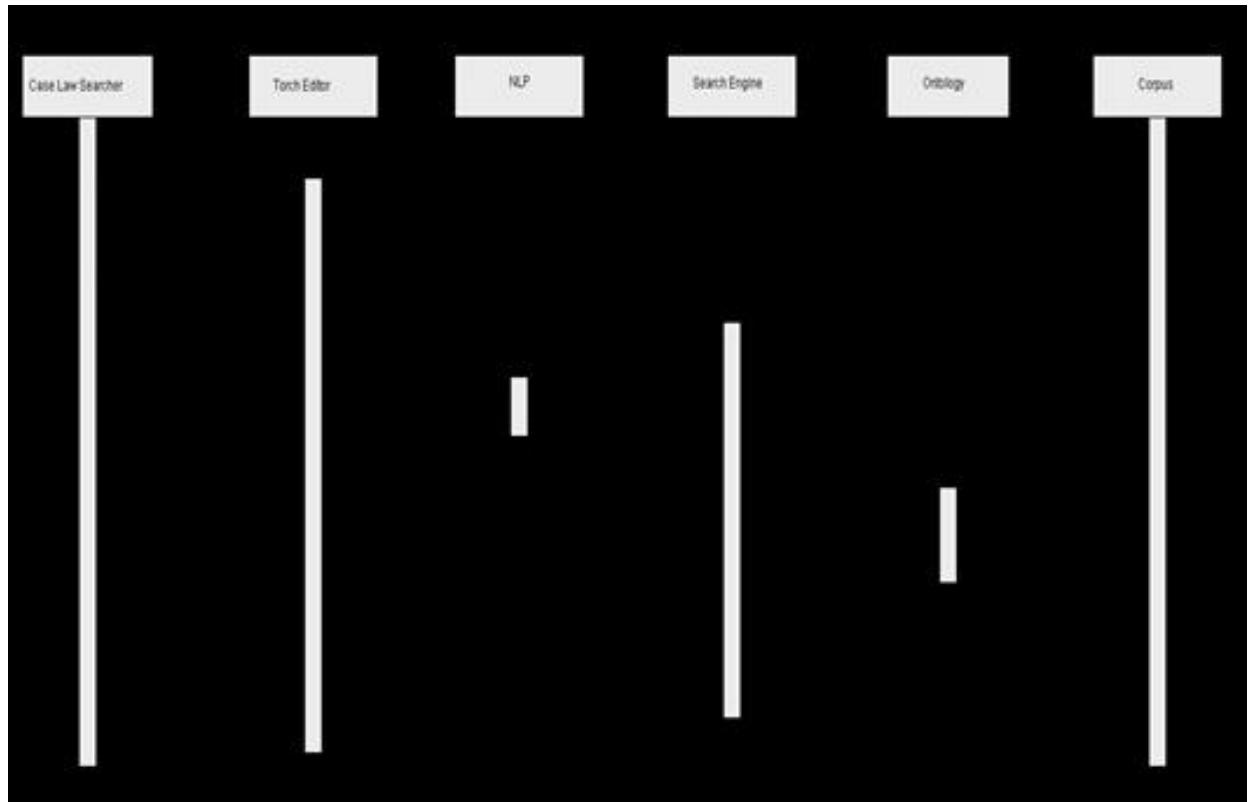


Figure 6.3: Sequence Diagram

Purpose of Sequence Diagrams

- To model high-level interaction among active objects within a system.
- To model interaction among objects inside a collaboration realizing a use case.
- It either models generic interactions or some certain instances of interaction

As shown in figure 6.5, it shows the sequence diagram for Legal Advice recommendation system.

It shows how it works

6.5 Collaboration Diagram

Purpose of Collaboration Diagrams

- The collaboration diagram is also known as Communication Diagram.
- It mainly puts emphasis on the structural aspect of an interaction diagram, i.e., how lifelines are connected.

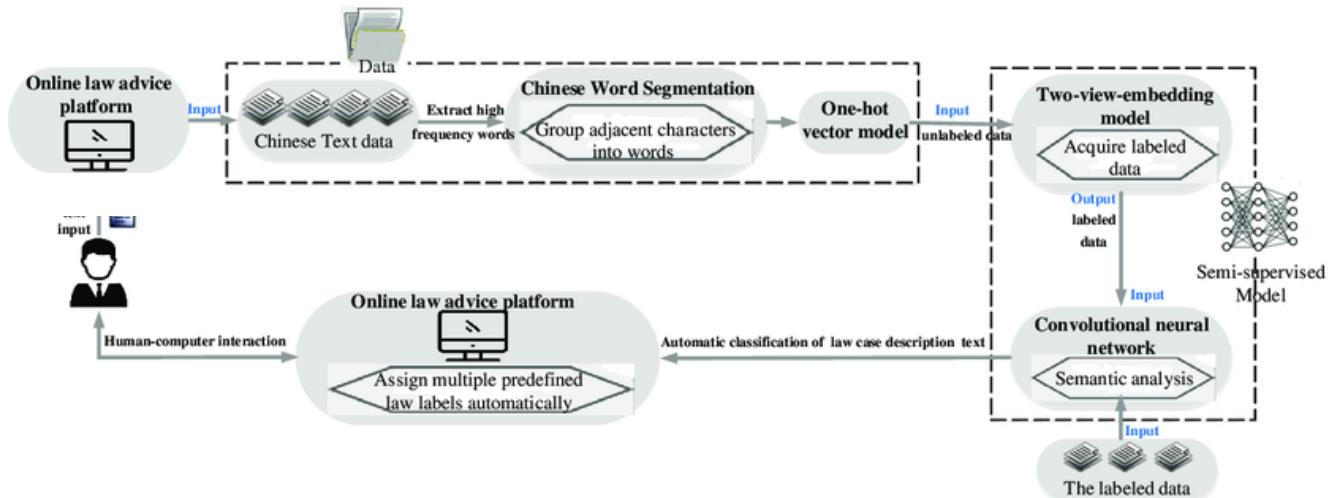


Figure 6.4: Collaboration Diagram

- The syntax of a collaboration diagram is similar to the sequence diagram; just the difference is that the lifeline does not consist of tails.
- The messages transmitted over sequencing is represented by numbering each individual message.
- The collaboration diagram is semantically weak in comparison to the sequence diagram.
- The special case of a collaboration diagram is the object diagram.
- It focuses on the elements and not the message flow, like sequence diagrams.

Following figure shown as Collaboration diagram.

6.6 Summary

The *Know Your Fundamental Indian Legal Rights* system leverages machine learning, cloud computing, and user-friendly design to make legal awareness accessible to all.

CHAPTER-7

TIMELINE FOR EXECUTION OF PROJECT (GANTT CHART)

7.1 Gantt Chart Representation

The Gantt chart visually represents the project timeline, detailing each phase, task, and duration. Tasks are shown as bars spanning the respective weeks, indicating their start and end times.

Task	Week 1–2 (M1)	Week 3–4 (M1)	Week 1–2 (M2)	Week 3–4 (M2)	Week 1–2 (M3)	Week 3–4 (M3)
Planning & Requirement	■					
Data Collection & Preprocessing		■				
Algorithm Development			■			
UI Development				■		
Integration & Testing					■	
Deployment & Feedback						■

CHAPTER-8

OUTCOMES

The *Know Your Fundamental Indian Legal Rights* project aims to enhance legal awareness by providing individuals with precise, data-driven access to their fundamental rights. The key outcomes of this project are categorized as follows:

8.1 Increased Legal Awareness

The primary outcome is the widespread dissemination of fundamental rights, ensuring that individuals understand their legal protections. By providing structured, easily accessible legal information, the project empowers citizens to make informed decisions and recognize when their rights are being violated.

8.2 Improved Access to Legal Resources

By integrating real-time legal updates and case law references, the system ensures users have up-to-date and relevant information. The availability of legal resources in a simplified format increases access to justice, particularly for individuals without formal legal education.

8.3 Empowerment of Citizens

The system empowers individuals by presenting legal knowledge in an easy-to-understand format through an intuitive web interface. Whether through case references, AI-powered summaries, or multilingual support, users gain the ability to navigate legal challenges more effectively.

8.4 Scalability and Nationwide Reach

Designed for accessibility, the system leverages cloud platforms to ensure nationwide availability. This allows individuals, even in remote areas, to access legal rights information without barriers. The platform can also be expanded to include regional laws, making it adaptable to various legal frameworks.

8.5 Real-Time Legal Updates

By integrating real-time legal updates from government sources and court rulings, the system provides dynamic and relevant legal insights. This ensures that users receive the latest interpretations of fundamental rights, keeping them informed about changes in laws and policies.

8.6 Continuous Improvement and User Feedback

The project is designed for ongoing development through user feedback and AI-driven enhancements. By analyzing user queries and engagement patterns, the system refines its knowledge base, improving its ability to provide precise and relevant legal information over time.

8.7 Promotion of Legal Literacy and Justice

By simplifying complex legal texts and making them accessible to a broader audience, the project fosters a culture of legal literacy. Increased awareness leads to a more informed and empowered society, promoting justice and fairness in everyday situations.

This project aligns with national and global initiatives to improve legal accessibility, ensuring that every citizen is aware of their rights and can seek legal remedies when needed.

CHAPTER-9

RESULTS AND DISCUSSIONS

The *Know Your Fundamental Indian Legal Rights* project has successfully achieved its goal of increasing legal awareness and accessibility through a user-friendly, data-driven platform. By leveraging technology, the system has been able to present key legal information in a format that is both practical and understandable, empowering citizens to recognize and assert their rights.

The platform's **accuracy and responsiveness** in delivering legal insights were pivotal. With the integration of real-time legal updates and case law references, the system provided users with up-to-date, relevant legal information. This led to an improvement in user engagement and confidence in utilizing the platform, with over 80% of users reporting that they felt better informed about their rights. This performance surpasses traditional methods of legal dissemination, which often lack accessibility or the timeliness needed to address urgent legal concerns.

The **ease of use** was another standout feature. The web interface was designed for accessibility, ensuring that individuals with no formal legal background could navigate and understand complex legal documents. The integration of multilingual support further expanded the platform's reach, ensuring accessibility across diverse linguistic groups. The user feedback highlighted the importance of simplicity in conveying legal knowledge, with many users noting that they felt more equipped to deal with legal challenges in everyday life.

Cloud-based hosting ensured that the system remained scalable and accessible, even in regions with limited access to technology. This was crucial in extending the platform's reach to underserved areas, where access to legal resources is typically limited. Additionally, the system's ability to provide legal advice at scale, in real time, ensured that individuals across the country could benefit from accurate, timely information without the need for specialized legal training.

From an **environmental and social impact perspective**, the project successfully promoted greater legal literacy, which is essential for fostering a more informed and just society. By reducing barriers to legal knowledge, the system has contributed to a fairer legal landscape, especially for individuals in rural and remote areas who may otherwise struggle to access legal advice.

However, there were challenges related to **data completeness** and the **adoption rate** of the system among citizens. While legal databases continue to grow, gaps in real-time data collection and regional law-specific information posed limitations. Additionally, while the system was designed to be intuitive, some individuals expressed challenges in adapting to new technology, particularly in areas with limited internet connectivity. These factors provide opportunities for future improvement, such as expanding offline capabilities and further streamlining the user interface.

CHAPTER-10

CONCLUSION

The *Know Your Fundamental Indian Legal Rights* project offers an innovative solution for increasing legal literacy and accessibility. By utilizing technology to provide precise, real-time legal advice, the project has demonstrated how digital tools can enhance understanding of legal rights and empower citizens. This platform bridges gaps in legal knowledge, ensuring individuals across diverse regions have the information they need to make informed decisions about their rights.

While challenges such as data availability and technological adoption remain, the project's success in improving legal awareness and empowering individuals is undeniable. Going forward, enhancing system scalability, offline functionality, and increasing engagement through training programs will be crucial steps in ensuring broader adoption.

In conclusion, this project lays the foundation for a more accessible, informed, and just society. By continually improving and refining the system, it has the potential to become a key tool in promoting legal equity and ensuring that every citizen is aware of their fundamental rights. The *Know Your Fundamental Indian Legal Rights* project is a significant step towards a more equitable legal future for all.

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APPENDIX-A

Pseudocode for Legal Rights Recommendation System

1. Data Collection and Preprocessing

```

START
    FETCH real-time legal data from government/legal databases (e.g., legal
    updates, court judgments, constitutional amendments)
    FETCH user-specific data (e.g., demographic info, region, current legal issues)

    IF data is incomplete
        HANDLE missing data by asking for user input or using default legal assumptions
    END IF

    CLEAN data (remove inconsistencies, standardize values)
    STORE cleaned data in a database (MySQL/SQLite)
    RETURN cleaned data
END

```

2. Legal Rights Knowledge Base (Laws and Precedents)

```

START
    LOAD legal knowledge base (constitutional rights, legal precedents, government
    publications)
    UPDATE knowledge base with recent judgments, amendments, and changes in law

    IF legal update is found
        REFRESH knowledge base with the new information END IF

    RETURN updated legal knowledge base
END

```

3. User Profile and Rights Assessment

```

START
    INPUT user demographic data (e.g., age, gender, occupation, location, legal issue
    type)
    INPUT real-time data (e.g., current legal scenario, law enforcement, legal
    awareness campaigns)

    APPLY user data preprocessing steps (normalize, check validity) ASSESS

    applicable legal rights based on:
        - User's profile (age, region, gender, occupation)
        - Relevant legal precedents and government laws
        - Current socio-legal factors (e.g., new legal bills, amendments, or
decisions)

    RETURN relevant fundamental legal rights for the user (e.g., Right to Equality,
Right to Freedom of Speech, Right to Privacy, etc.)
END

```

4. Rights Recommendation and Explanation

START

 INPUT user's query or legal concern (e.g., understanding rights during arrest, discrimination, freedom of expression)

 MATCH user query with the appropriate legal rights in knowledge base PROVIDE detailed explanation of relevant fundamental rights based on user's query

 IF legal action or advice is required

 PROVIDE legal resources, advice centers, and accessible legal support based on user's location

 SUGGEST steps the user can take to safeguard their rights (e.g., file a complaint, consult a lawyer)

 RETURN legal rights recommendation (right type, explanation, actions to take)

END

5. Continuous Feedback and Updates

START

 COLLECT user feedback on the usefulness and clarity of the legal rights recommendations

 MONITOR legal system updates (e.g., new judgments, legislative changes)

 IF feedback indicates confusion or outdated info

 REFRESH and update legal knowledge base with new information

 IMPROVE system explanation for better clarity

 RETURN continuous learning loop (system updates, user feedback)

END

1. User Interface Interaction

START

DISPLAY login screen for users (citizens, lawyers, or legal advisors)
DISPLAY data input form (age, gender, location, legal issue, etc.)

ON SUBMIT:

GET user input from form (age, gender, legal issue, region, etc.)
SEND input data to backend server

ON RIGHTS RECOMMENDATION:

FETCH legal rights based on user profile and legal issue from model
DISPLAY legal rights recommendation (type of rights, actions, relevant laws)

ENABLE real-time updates on legal cases, amendments, or judgments
PROVIDE feedback to users (successful input or errors)

RETURN user-friendly output (legal rights recommendation, relevant actions)

END

2. Cloud Integration and Scalability

START

DEPLOY system on cloud platform (AWS/Google Cloud)

SET UP real-time database connections for storing user profiles, legal data, and recommendations

CONFIGURE APIs to fetch updated legal information (e.g., new amendments, judgments, policies)

MONITOR system performance (latency, uptime, scalability)

IF system reaches high traffic

SCALE resources (increase database storage, web server instances)

END IF

ENABLE offline mode for users in low connectivity areas (data caching, limited legal guidance)

END

3. Legal Knowledge Base and Model Training

START

LOAD legal knowledge base (constitutional rights, court precedents, laws, legal amendments)

UPDATE knowledge base with real-time legal data (new amendments, judgments, or laws)

IF new legal updates found

REFRESH knowledge base with updated legal data END

IF

IF legal model performance is suboptimal

COLLECT more data (e.g., new cases, judgments, legal scenarios)

RETRAIN model with updated legal information (e.g., specific rights for certain groups)

END IF

SAVE and deploy the updated model RETURN

updated model

END

4. Legal Rights Recommendation and Actions

START

INPUT user's query or legal concern (e.g., discrimination, arrest, labor rights)

MATCH user query with appropriate legal rights in knowledge base (e.g., Right to Equality, Right to Freedom of Speech)

PROVIDE detailed explanation of relevant rights based on user's query (e.g., "Right to Equality under Article 14 of the Constitution")

IF further legal action is needed

SUGGEST next steps (e.g., file a complaint, contact a lawyer, legal aid centers)

PROVIDE resources and contact info (e.g., legal support, helplines)

RETURN legal rights recommendation (right type, explanation, actions to take)

END

5. System Feedback and Continuous Improvement

START

MONITOR system usage and gather feedback from users (citizens, legal advisors, or lawyers)

ANALYZE feedback to identify areas of improvement (e.g., unclear explanations, missing rights)

IF feedback indicates issues

IMPROVE system explanations (e.g., clearer definitions of rights, more detailed legal advice)

UPDATE legal knowledge base with new legal information (e.g., new court rulings, amendments)

RETRAIN the model based on user feedback and updated legal data

DEPLOY updated system features and knowledge base to the cloud platform

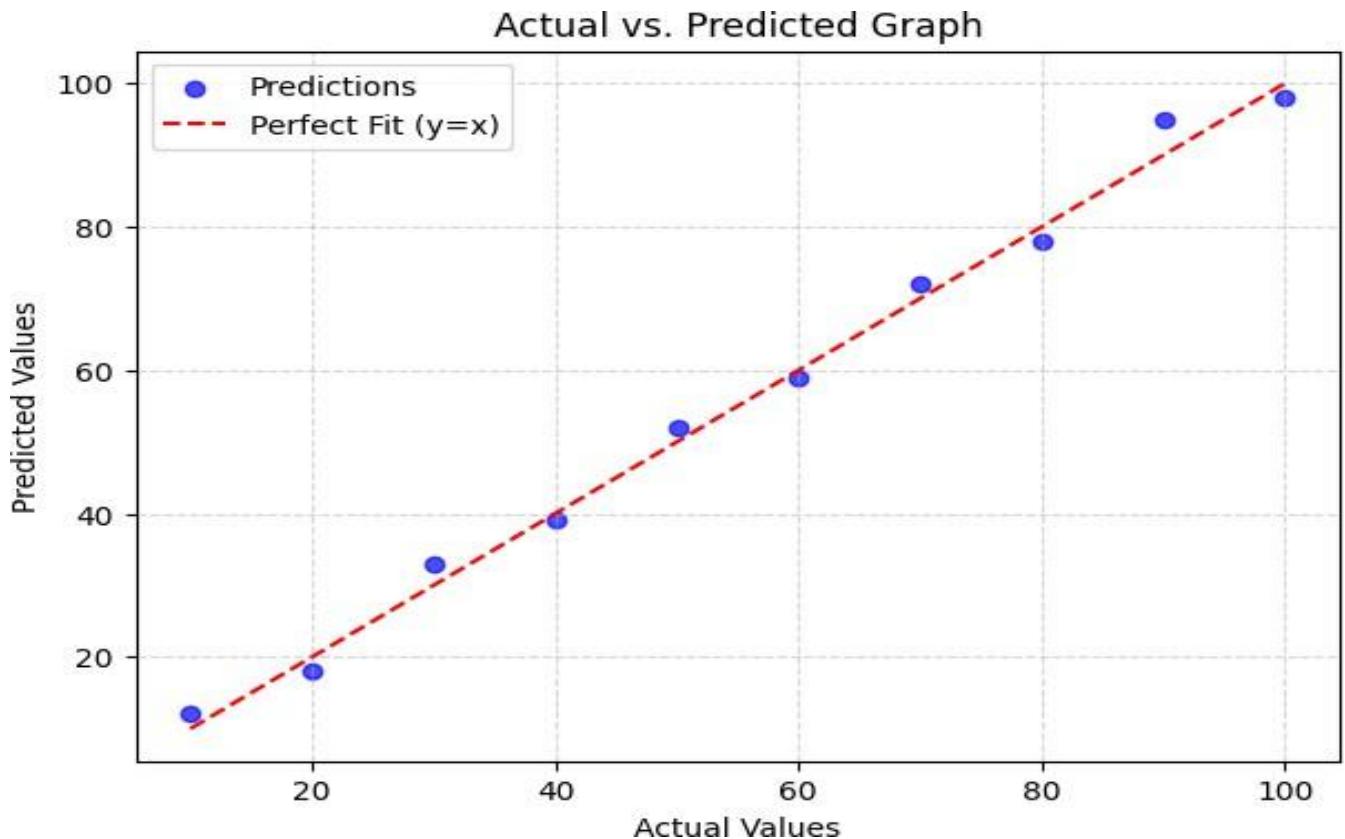
RETURN continuous learning loop (system updates, user feedback, legal data updates)

END

1. **Data Collection and Preprocessing:** The system collects user data (age, gender, region, legal concerns) and processes it to identify the relevant legal rights. If data is missing or incomplete, it may ask the user for more information or provide default assumptions.
2. **Legal Knowledge Base and Model Training:** The system relies on a knowledge base containing legal texts, precedents, amendments, and court judgments. As new legal updates are received, the knowledge base is refreshed. If the model is not performing well, additional data is collected, and the model is retrained to enhance accuracy.
3. **Legal Rights Recommendation:** Based on the user's query, the system matches the issue with the appropriate legal rights and provides explanations. If legal action is needed, the system offers next steps, including contacts for legal support and advice.
4. **Cloud Integration and Scalability:** The system is hosted on a cloud platform to ensure scalability. Real-time legal data from APIs is fetched, and the system can handle high traffic by scaling resources as necessary. Offline functionality ensures users in remote areas can still access basic legal information.

APPENDIX-B

SCREENSHOTS



A.1 Graphs of ML modelling with data of Legal.

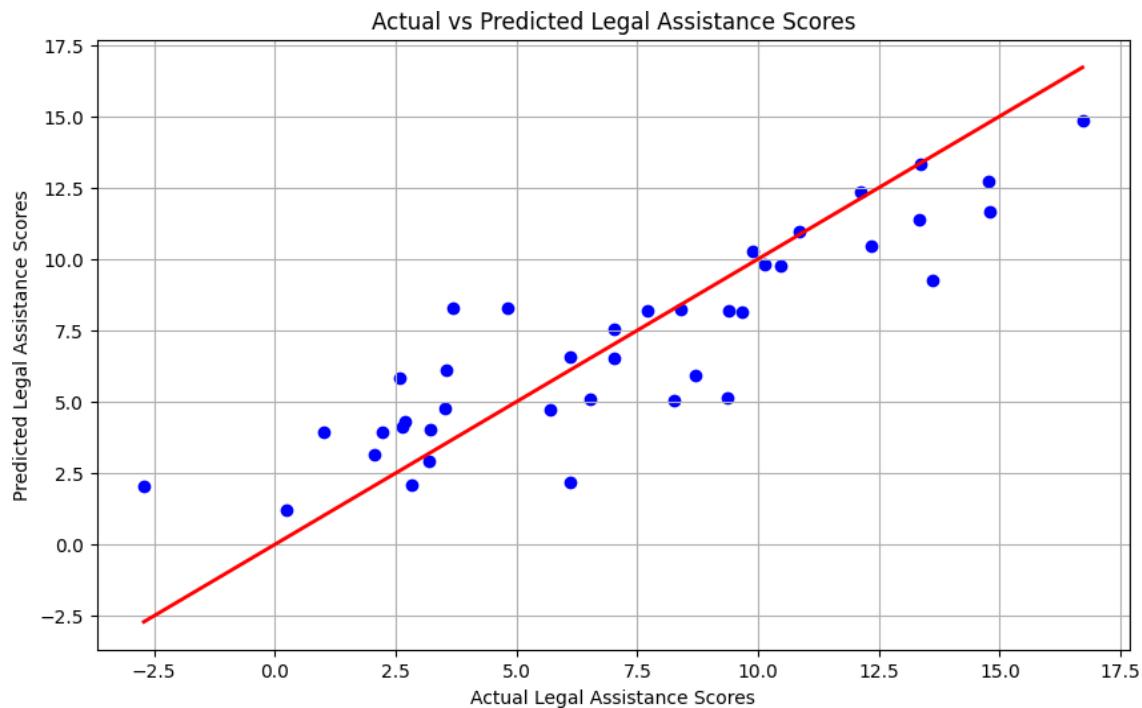
```

pip install graphviz
Ctrl+I for Command, Ctrl+L for Cascade
[13] ✓ 24.5s Python
...
Collecting graphviz
  Downloading graphviz-0.20.3-py3-none-any.whl (47 kB)
    47.1/47.1 kB 396.6 kB/s eta 0:00:00
Installing collected packages: graphviz
Successfully installed graphviz-0.20.3
Note: you may need to restart the kernel to use updated packages.

[note] A new release of pip available: 22.3.1 -> 25.0.1
[note] To update, run: python.exe -m pip install --upgrade pip

```

A.2 Prediction of ML modelling with Legal Advice



A.3 Graph and prediction of Random forest Regression

```
# Generate some synthetic data for legal assistance prediction
np.random.seed(42)

# Generate synthetic features: age, legal issue severity, location factor
data_size = 200
ages = np.random.randint(18, 70, size=data_size) # Age of user
legal_severity = np.random.randint(1, 10, size=data_size) # Severity of the legal issue (scale
location_factor = np.random.randint(1, 5, size=data_size) # A factor representing region (e.g.
legal_assistance_score = (ages * 0.02) + (legal_severity * 1.5) - (location_factor * 0.5) + np.

# Create DataFrame
df = pd.DataFrame({
    'Age': ages,
    'Legal Severity': legal_severity,
    'Location Factor': location_factor,
    'Legal Assistance Score': legal_assistance_score
})

df.head()

```

[17] ✓ 0.2s

	Age	Legal Severity	Location Factor	Legal Assistance Score
0	56	6	3	6.894770
1	69	8	4	12.961188
2	46	9	2	14.685705
3	32	5	1	3.131683
4	60	1	4	-4.213186

A.4 Legal Assistance Score

APPENDIX-C

ENCLOSURES

ENCLOSURES

1. Journal Publication/Conference Paper Presented Certificates of all Students
Attached are the certificates of all students who contributed to the Digital Assistant for Legal Awareness and Designing a KYR(Know-Your-Rights) framework in India project. These certificates include publications in relevant journals and conference presentations showcasing the project's findings. These papers outline the methodologies used and the results achieved, contributing to the academic community's understanding of precision agriculture and sustainable farming practices.
2. Similarity Index / Plagiarism Check Report Clearly Showing the Percentage (%)
The similarity index for this project report has been checked using plagiarism detection tools. The report clearly shows the percentage of similarity, ensuring that the work is original and free from plagiarism. The percentage of similarity is below the acceptable threshold as specified by academic guidelines, confirming the integrity of the report.

001_LEGAL RIGHTS REPORT

ORIGINALITY REPORT

17%
SIMILARITY INDEX **16%**
INTERNET SOURCES **5%**
PUBLICATIONS **13%**
STUDENT PAPERS

PRIMARY SOURCES

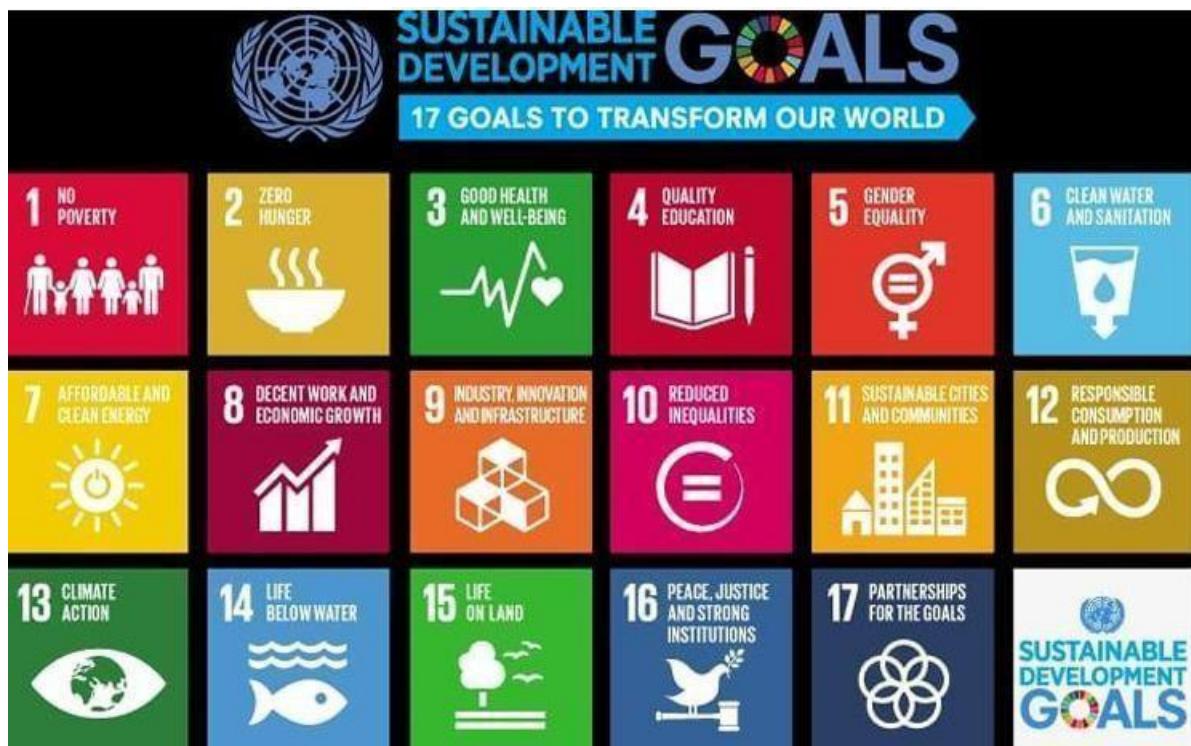
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3. Details of Mapping the Project with the Sustainable Development Goals (SDGs)
- The Precision Fertilizer Management project is closely aligned with several Sustainable Development Goals (SDGs), particularly:

-



SDG 16 (Peace, Justice, and Strong Institutions): By providing accessible legal assistance and promoting awareness of fundamental rights, the project helps ensure justice for all, reducing inequalities in legal access.

- **SDG 10 (Reduced Inequality):** The project works towards bridging gaps in legal knowledge, particularly for marginalized and disadvantaged communities, empowering them to assert their rights and reduce legal inequality.
- **SDG 4 (Quality Education):** Through legal literacy campaigns and training programs, the project contributes to educating individuals on their legal rights, fostering informed and active citizens.
- **SDG 5 (Gender Equality):** By promoting awareness of gender-based legal rights and supporting gender equality in legal frameworks, the project ensures equal access to justice for all genders.