Law Guardian: Automated Legal Advisory & Resolution Assistant

Chennai Institute of Technology – 600069

B.Tech Artificial Intelligence and Data Science

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Abstract:

This paper proposes a legal chatbot designed to empower individuals with basic knowledge of their rights in various situations. Aiming to address the challenges of complex legal language, limited accessibility, and lack of awareness, the chatbot employs a scenario-based approach.

Through user-friendly text prompts or voice recognition, individuals describe their situation, triggering the chatbot to identify the relevant legal scenario. Utilizing simple, non-technical language, the chatbot explains the associated rights and obligations, potentially incorporating visual aids or interactive elements for enhanced understanding. Recognizing its limitations, the chatbot integrates links to trusted legal resources like government websites, legal aid organizations, and lawyer directories. Additionally, it explicitly disclaims providing legal advice, encouraging users to seek professional guidance for complex situations.

This project envisions several benefits. By fostering increased legal awareness, individuals gain the ability to make informed decisions and advocate for themselves more effectively. The chatbot's user-friendly platform improves accessibility to legal information, potentially reducing reliance on expensive or time-consuming traditional resources. Furthermore, by simplifying legal concepts and terminology, the chatbot acts as a bridge between individuals and the legal system, demystifying legal jargon.

Overall, this legal chatbot empowers individuals by providing easily accessible knowledge about their rights, paving the way for a more informed and responsible society regarding legal matters

**INTRODUCTION**

**General Idea:** In this project we propose, the development of a legal chatbot designed to empower individuals with basic knowledge of their rights in various situations.

**Drawbacks of Existing Solutions:** While legal resources exist, they often use complex language and lack accessibility for individuals unfamiliar with legal jargon or navigating unfamiliar legal situations.

**Objective:** This project aims to bridge the gap by creating a user-friendly chatbot that provides clear and concise information about individual rights in common legal scenarios.

**Proposed Work:** The chatbot will focus on providing information on specific rights within predefined legal situations relevant to the target audience. It will utilize simple language, scenario-based explanations, and integrated resources to empower users with knowledge.

**Proposed Work Features:**

***Scenario-Based Approach:*** Common legal situations will be outlined with clear explanations of relevant rights and obligations.

***Accessible Language:*** Non-technical language will be used to facilitate understanding for diverse users.

***Resource Integration:*** Links to trusted legal resources will be provided for further information and potential assistance.

***Disclaimers:*** Clear disclaimers will emphasize the limitation of the chatbot and encourage seeking professional legal advice for complex situations.

**Advantages of Proposed Work:** This project offers several benefits:

*Increased Legal Awareness:* Individuals will gain a basic understanding of their rights, leading to greater self-advocacy and informed decision-making.

*Demystifying Legal Jargon:* The chatbot will make legal concepts easier to understand through simplified explanations.

*Improved Access to Resources*: The integration of trusted legal resources will provide users with avenues for further exploration and potential professional assistance.

By providing easily accessible knowledge, this legal chatbot empowers individuals and fosters a more responsible and informed society regarding their legal rights.

**Literature survey:**

1. **Title : An Evaluation of Methodologies for Legal Formalization**

Author : Tereza Novotna, Tomer Libal

Inference: The paper presents a systematic categorization of effective formalization attributes based on recent research. It introduces an evaluation framework demonstrated through a preliminary experiment involving legal experts. Emphasizing correctness, it explores transparency, comprehensibility, and adaptability, proposing methodologies for assessment.

Drawbacks: The drawback is lack of scalability of the evaluation framework, limiting its applicability to larger datasets or real-world scenarios.

1. **Title : Law nature of artificial intelligence**

Author : A V Skorobogatov, A. V. Krasnov

Inference: The paper examines the ontological nature of artificial intelligence in law, proposing it as both an object and subject of legal consideration. It suggests introducing a new legal category, "cyber-face," while emphasizing the urgent need for appropriate legal norms amidst the digitalization of society, especially during the COVID-19 pandemic

Drawbacks: The paper may oversimplify the multifaceted legal status of artificial intelligence by proposing it as both an object and subject of law, potentially overlooking nuanced legal considerations

**3.Title : Using Predictive Justice Algorithms for Issuing Court Judgments with Efficient Prediction**

Author : Abdulbasit Fahil, Abdulkareem

Inference: The paper proposes employing the LSTM-CNN model, a DL approach, for accurately predicting court judgments in criminal justice, citing its success in various domains. It aims to overcome limitations of traditional ML models like SVMs, KNN, and NB, showcasing superior performance in terms of accuracy, precision, recall, and F1-score

Drawbacks: The proposed LSTM-CNN model's computational complexity and emphasis solely on quantitative metrics may overlook qualitative legal nuances essential for decision-making.

**4.Title : Law Article-Enhanced Legal Case Matching**

Author : Abdulbasit Fahil, Abdulkareem

Inference: Legal case matching, addressed by Law-Match, integrates semantic text matching models with embeddings of law articles and legal cases, distinguishing between law-related and unrelated components for improved performance. Through comprehensive experiments, Law-Match demonstrates superior performance over state-of-the-art baselines across multiple public datasets, showcasing its versatility and effectiveness

Drawbacks:While Law-Match exhibits superior performance, the challenge of accurately representing nuanced legal concepts and its generalizability to highly specialized legal domains are potential limitations.

# 5.Title : AI in Law Practices

Author : Abdulbasit Fahil, Abdulkareem

Inference: The paper explores AI applications in law, focusing on a decision support system integrating AI and data science for aiding legal professionals in decision-making and research. It emphasizes the system's role in enhancing efficiency and accuracy within legal practices.

Drawbacks: The drawback could be the potential for overreliance on AI, which may overlook the need for human judgment and legal expertise in nuanced legal matters

# 6.Title : Artificial intelligence and the rule of law: a critical appraisal of a developing sector

Author : Nabila Rauf, Shehla Zahoor

Inference: The paper underscores the necessity for a comprehensive approach towards AI in law, addressing legal, ethical, social, and technical aspects, while emphasizing transparency and fairness to mitigate risks such as bias and discrimination. It advocates for stakeholder engagement to uphold justice, equality, and human rights in the digital era for a fairer society.

Drawbacks: The drawback could be the challenge of effectively implementing and regulating such a comprehensive approach across diverse legal systems and jurisdictions.

# 7.Title : Survey of Text Mining Techniques Applied to Judicial Decisions Prediction

Author : Olga Alejandra Alcántara Francia, Miguel Nunez-del-Prado, Hugo Alatrista-Salas

Inference: The paper surveys text mining techniques applied to judicial decision prediction, highlighting the prevalence of SVM, K-NN, RF, and machine learning over deep learning methods, with most research conducted in English-speaking countries and achieving over 60% accuracy rates.

Drawbacks: The drawback could be the potential bias introduced by the overrepresentation of English-speaking countries in the research, which may limit the generalizability of findings to other legal systems.

# 8.Title : AI, Ethics, and Law

Author : Islam MS, Tanzin M, Haque ME, Bashar MMN, Hossain MA and Khan MAS

Inference: The paper explores the challenges of integrating ethics and law into AI applications, emphasizing the necessity of a theoretical framework and continued human supervision despite technological progress. It proposes a general framework for comprehending the intricate interplay among AI, consciousness, ethics, and law while identifying regulatory challenges.

Drawbacks: The drawback could be the lack of specific guidance on implementing the proposed theoretical framework, potentially hindering practical application.

# 9.Title : Artificial intelligence and the rule of law: a critical appraisal of a developing sector

Author : Nabila Rauf, Shehla Zahoor

Inference: The paper underscores AI's potential to reshape the legal system, emphasizing the importance of designing AI systems that align with the rule of law through transparency and fairness. However, it highlights the imperative to address challenges such as bias and discrimination while advocating for stakeholder engagement to uphold justice, equality, and human rights in the digital era..

Drawbacks: One drawback could be the potential difficulty in effectively addressing bias and discrimination within AI systems despite emphasizing their importance, which may hinder the achievement of justice and equality

# 10.Title : Navigating the Convergence of Artificial Intelligence and Space Law

Author ::[Mohammad Owais Farooqui](https://typeset.io/authors/mohammad-owais-farooqui-2y8p38sy)

Inference: The paper examines the intersection of AI and space law, discussing its potential to revolutionize space exploration while emphasizing the necessity of a novel legal framework to address associated challenges. It advocates for international collaboration and proposes the establishment of a new international space organization to advance space law.

Drawbacks: drawback could be the potential complexity and feasibility challenges in establishing a new international space organization to address evolving legal frameworks amidst rapid technological advancements.

# 11.Title : A Master's Degree: Empowering Digital-Age Lawyers in Legal Technology

Author : Cemile Cakir

Inference:

The paper underscores the necessity for technologically proficient lawyers and proposes a multidisciplinary master's program in Legal Technology to bridge the skills gap, foster knowledge exchange, and empower lawyers for digital-age challenges. It advocates for a progressive approach in legal education, emphasizing the program's versatility and its role in cultivating thought leadership and transformative legal practice.

Drawbacks: drawback could be the potential difficulty in ensuring the program remains up-to-date with rapidly evolving legal technology advancements, which may require continuous curriculum updates and resources.