



# Legal Eagle

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**Computer Science and Design**





## **LEGAL EAGLE:**

# **Text Recognition from Legal Documents, Translation & Women Safety Chatbot**

**This project aims to leverage machine learning and OCR for legal document analysis and a women safety chatbot.**



# Introduction

Legal documents, historical manuscripts, and terms and conditions often contain critical information but are not easily accessible. Machine Learning and OCR can automate text extraction and translation, enhancing accessibility. Women face challenges in accessing legal support during distress. Our chatbot provides real-time guidance on laws related to women's safety.

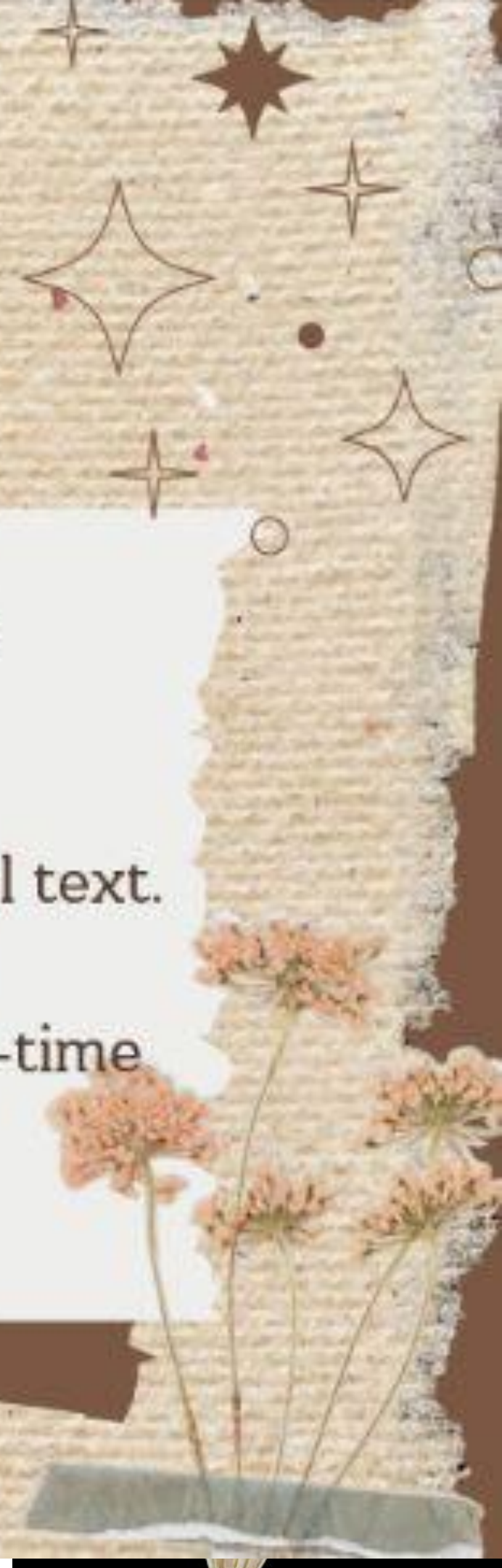




# Project Idea

Unified platform for text recognition, translation, and legal chatbot services. Integration of OCR, translation, and NLP for Indian legal contexts.

Address challenges in processing old manuscripts and complex legal text. Easy-to-use interface for translating legal documents into regional languages. Focus on women's empowerment and accessibility. Real-time legal advice and women safety guidance through the chatbot.





# Objectives



## **Text**

### **Recognition:**

**Extract text from legal documents, terms and conditions, and historical manuscripts with high accuracy.**



## **Translation:**

**Translate extracted text into multiple Indian languages for better accessibility**



## **Women Safety Chatbot:**

**Build a chatbot that provides guidance on women safety laws, legal procedures, and helpline information.**





# Methodology

## **Text Recognition (OCR)**

Use Tesseract OCR and custom pre-processing techniques for high-quality text extraction from legal documents and historical manuscripts.

## **Translation**

Use Transformer-based models to translate text into Indian languages

## **Women Safety Chatbot**

Dialogflow or Rasa with an NLP model, providing legal advice and safety procedures





# Literature Survey

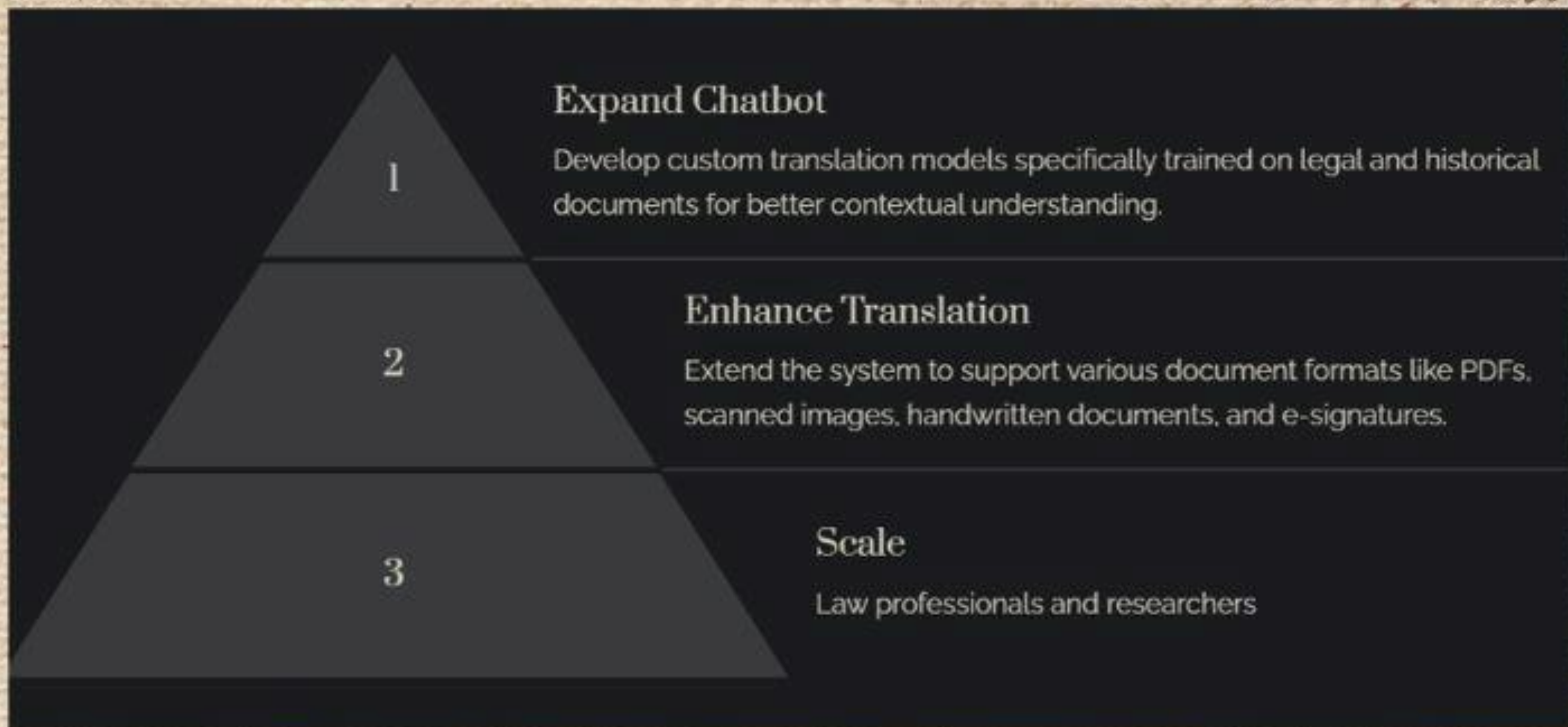
## Existing Solutions

Platforms like ChatGPT provide general AI-based assistance but lack focus on domain-specific legal and safety issues.

Services such as Google Vision API, Tesseract OCR, and Google Translate offer document recognition and translation but are limited in scalability and legal-specific processing.



# Future Scope







# Conclusion

In conclusion, our project integrates machine learning, OCR, and NLP to provide a scalable solution for legal document recognition, translation, and women's safety support. It offers unlimited document uploads and focuses on law-specific issues, empowering women with instant legal assistance. The platform enhances legal document processing and preserves historical manuscripts. Future enhancements will expand its reach to benefit individuals and organizations. Overall, this project aims to make legal support more accessible, efficient, and inclusive.



# Expected Output

## Legal Eagle

Your trusted assistant for legal and historical document processing

### Text Recognition

Recognize and  
simplify legal  
documents.

### Voice Translation

Convert spoken  
words to text  
and translate.

### Historical Manuscripts

Read traditional  
handwritten  
texts.

### Women Safety Laws

Access essential  
laws for  
women's safety.



# Text Recognition

Choose File Finacle C...ogram.pdf

Upload PDF

## Extracted Text:

Shortlisted students will undergo Finacle online training in their 6th & 7th semester, followed by paid internship in their 8th semester. Students will get the opportunity to work in live projects along with some of the brightest minds in the industry. On successful completion of the engineering course, students will join Finacle as Full -time employees. Salary for full-time employees is 8 LPA.



EXPLORER

LEGAL EAGLE

Legal-Eagle2 / Legal-Eagle

.vscode

backend

uploads

venv

chatbot.py

server.py

tamilocrbackend.py

temp\_image.jpg

node\_modules

public

src

images

App.css

App.js

App.test.js

HistoricalManuscripts.css

HistoricalManuscripts.js

Home.css

home.html

Home.js

index.css

index.js

istockphoto-494896064-... U

load.html

logo.svg

NavBar.css

NavBar.js

reportWebVitals.js

setupTests.js

TextRecognition.css

TextRecognition.js

textrecognition.py

VoiceTranslation.css

OUTLINE

TIMELINE

tRecognition.js

ocr.py

tamilocrbackend.py

JS HistoricalManuscripts.js

server.py .../Legal-Eagle/... M

load.html x

chatbot

Legal-Eagle2 > Legal-Eagle > src > load.html > html > head > style > \*

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<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Legal Eagle - Loading</title>

<link href="https://fonts.googleapis.com/css2?family=GreatVibes&family=Poppins:wght@400;700&display=swap" rel="stylesheet">

<style>

\* {

margin: 0;

padding: 0;

box-sizing: border-box;

}

body {

background: black;

font-family: 'Poppins', sans-serif;

display: flex;

flex-direction: column;

align-items: center;

justify-content: center;

height: 100vh;

text-align: center;

overflow: hidden;

}

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

127.0.0.1 - - [24/Mar/2025 18:17:36] "POST /ocr HTTP/1.1" 200 -

127.0.0.1 - - [25/Mar/2025 21:35:08] "POST /ocr HTTP/1.1" 200 -

\* History restored

sheebasharon@Sheebas-MacBook-Air backend % source venv/bin/activate

(venv) sheebasharon@Sheebas-MacBook-Air backend % python3 tamilocrbackend.py

\* Serving Flask app 'tamilocrbackend'

\* Debug mode: on

WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.

\* Running on http://127.0.0.1:5011

Press CTRL+C to quit

\* Restarting with stat

\* Debugger is active!

\* Debugger PIN: 115-863-999

127.0.0.1 - - [26/Mar/2025 10:18:48] "POST /ocr HTTP/1.1" 200 -

127.0.0.1 - - [26/Mar/2025 10:57:42] "POST /ocr HTTP/1.1" 200 -

zsh Docum...

zsh .Trash

zsh backend

zsh .Trash

zsh Docum...

Python...

node ba...

Python bac...

zsh Legal-...

main\*

0

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C-Sakthi-Maheswari (2 days ago)

Ln 11, Col 24

Spaces: 4

UTF-8

LF

HTML

Port : 5500



The card features intricate Art Nouveau style illustrations. In the top-left corner, a yellow vine with a large purple and green leaf and a yellow starburst is visible. The bottom-left corner shows a yellow flower with an orange center and a green vine. The bottom-right corner is decorated with a yellow vine, a small white flower, a green bell-shaped flower, and a circular pendant with a green face and pink floral patterns. A green starburst is also present in the top-right area.

**Thank  
You!**