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## Legal Contract Simplification with LLMs

Project by: Sarath S, Sasiram S, Sathish S

Goal: Use AI to simplify complex legal jargon for everyone.



## **Introduction: The Problem & Solution**

### **Problem**

Legal contracts are complex and difficult for most people to understand.

#### **Statistics**

73% of people find legal terms confusing and overwhelming.

### Solution

Apply Large Language Models to translate contracts into plain language.

# Objective: Clarity and Accessibility

1 Primary Goal

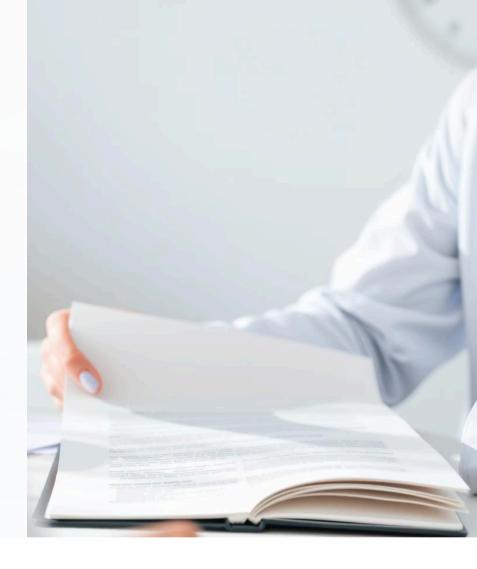
Make legal contracts accessible to everyone by simplifying language.

2 Metric

Reduce contract reading time by 50% through simplification.

**3** Secondary Goal

Minimize misunderstandings and legal risks from confusing terms.



## Tools & Technology: The AI Stack

## Language Model

GPT-3.5 Turbo fine-tuned on legal text for precise simplification.

## **Programming**

Python 3.9 uses libraries: Transformers, NLTK, Gensim, Streamlit.

### **Cloud Platform**

Hosted on AWS EC2 for scalable and reliable processing power.

# How the Simplification Works

### **Load Contract**

Import contract document for processing.

## **Clause Splitting**

Break the document into smaller clauses.

## **Simplify Clauses**

Each clause is rewritten using the LLM.

## **Save Output**

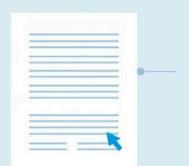
Export the simplified contract for end-users.

## Al puiat steps



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# **Project Design: From Jargon to Clarity**

1

### Input

Upload complex contracts (PDF, DOCX formats).

2

### **Processing**

LLM analyzes, simplifies, and rewrites legal jargon.

3

## Output

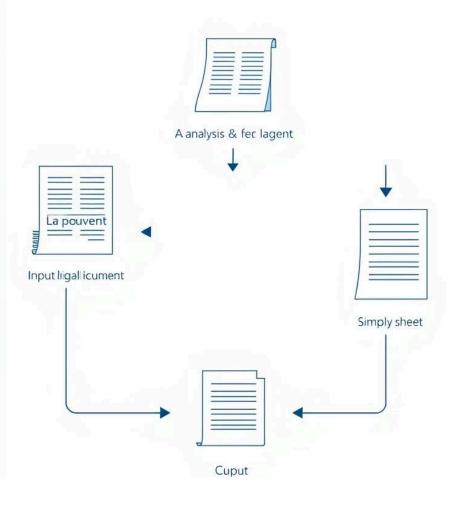
Generate simplified contract and summary in output files.

4

## Workflow

Parsing, Summarization, Translation, and Output generation.

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## Output & Screenshots: Before & After



## **Original Snippet**

Shows complex legal language excerpt.



# Simplified Snippet

Plain language version easy to understand.



## Side-by-side

Comparison highlights differences clearly.



### **User Interface**

Streamlit app to upload and view simplified contracts.

## **Conclusion & Future Work**

## **Summary**

LLMs significantly simplify legal contracts and improve accessibility.

## **Impact**

Saves user time and reduces misunderstandings in legal documents.

## **Future Improvements**

- Multi-language support
- Higher accuracy
- Integration with legal databases
- Voice input capabilities