# KRITARTH SRIVASTAVA

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#### **EDUCATION**

MAKAUT, West Bengal

Aug 2023 – Jun 2027

B.Tech in Computer Science Engineering - CGPA: 8.09

Kolkata, India

**PROJECTS** 

### **Legal Chatbot Assistant**

Flask, LangChain, HuggingFace, FAISS, HTML, CSS, JavaScript

- Developed an end-to-end Al-powered legal assistant chatbot using LangChain RAG pipeline with preloaded legal documents (PDFs).
- Used PyPDFDirectoryLoader and RecursiveCharacterTextSplitter to parse and chunk court case documents.
- Integrated HuggingFace sentence embeddings with FAISS vector store to enable semantic document retrieval.
- Built backend API using Flask, served responses using Groq's LLM (gemma2-9b-it) for accurate legal Q&A.
- Designed responsive frontend with HTML, CSS, JavaScript to allow users to ask domain-specific legal guestions.
- Handled metadata and ensured only relevant page\_content is used during LLM interaction.
- Deployed as a functional POC to demonstrate retrieval-augmented legal automation capabilities.

# Al Resume Screening App

LangChain, Flask, NLP, HTML

- Developed a resume screening application using LangChain to process and analyze resumes with LLM-driven reasoning.
- Applied NLP techniques to extract key sections like skills, education, and experience from uploaded resume files.
- Created a backend using **Flask** to handle resume parsing, job description input, and response generation.
- Designed a simple yet effective **HTML-based interface** for users to upload resumes and view structured feedback.
- Enabled contextual matching between resumes and job descriptions to assist recruiters in shortlisting candidates efficiently.

### Al Chatbot Interface with Gradio + Local LLM Backend Python, Gradio, REST API, JSON

- Developed a lightweight Al chatbot interface integrating with CodeGuru, a local LLM backend using Gradio and REST API.
- Implemented prompt history tracking to maintain contextual conversation flow.
- Used HTTP POST with JSON payloads for efficient backend communication.
- Ensured compatibility with multiple local models through modular configuration design.
- Built fallback mechanisms for API failure handling and logging for debugging.

# Multi-Tool AI Chatbot with RAG and Search Capabilities

LangChain, Streamlit

- Built an interactive chatbot integrating DuckDuckGo, Wikipedia, Arxiv, and PDF Q&A tools via LangChain agents.
- Implemented RAG with FAISS and Ollama for real-time document guery resolution.
- Integrated Groq Al's Llama3-8b-8192 model with zero-shot agent routing.
- Optimized search latency and agent decision-making using structured prompts.
- Enabled seamless user interaction with UI elements and visualized tool routing logic.

#### TECHNICAL SKILLS

Languages: Python, C++, C, Markdown

Technologies/Frameworks: Machine Learning, Natural language Processing(NLP), LangChain, LangGraph,

Panda, Numpy, Streamlit, HTML, CSS, Flask

**Developer Tools:** VS Code, GitHub, Jupyter Notebook

Concepts: Object-Oriented Programming, Data Structures & Algorithms, Generative Al