

MADHAV KUMAR

Software Developer

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madhav-mknc.github.io/portfolio



PROJECTS

LAWrence: Swiss Legal Memo Tool Dec 2023

- Orchestrated LLMs for summarization and Q/A retrieval.
- Designed data models for article extraction and legal analysis.

Slack Bot June 2023

- Developed a versatile **Slack Bot** using advanced LLMs.
- Implemented **Retrieval Augmented Generation (RAG)** for private document retrieval with **Vector databases** and the **Langchain**.

Admin-Portal: AI Web Chatbot July 2023

- Built a web chatbot trained on user's private data using Flask, LangChain, **Pinecone vector database**, and OpenAI SDK.
- Implemented advanced RAG and built a full-stack web app.

X-Tweet: Twitter Co-pilot November 2023

- Created a **Telegram bot** for personalized tweet generation.
- A **marketing tool** to manage and enhance user's X presence.
- Finetuned** advanced LLMs for best quality content generation.

Miles AI: WhatsApp Co-pilot August 2023

- Employed advanced AI technology to generate personalized replies, enhancing conversation dynamics. Used **OpenAI APIs**.
- Gained popularity among startup folks and **100+ users**.

X-Hall: A CLI based chatroom Feb 2023

- Designed a **P2P network** using **Socket Programming** in Python.
- Implemented **Multi-threading** and Command Line Interface.

Eye-PERS: Eyewear Recommendation Tool May 2023

- Recommendation engine for eyewears on Lenskart.
- Implemented Object Detection and **AWS Rekognition**.

Personal Web Assistant Feb 2024

- Developed a **Chrome extension** for a personal web assistance.
- Orchestrated advanced **Large Language Models (LLMs)** and vector databases in the backend using **Llama Index**.

Who-Is-Online January 2024

- Built a **web extension** for web users interaction.
- Turns every website on the surface web into a chatroom.

EDUCATION

B-Tech Major in Engineering Physics

Indian Institute of Technology Delhi

2024

New Delhi, Delhi

Class-XII CBSE

Coast Guard Public School

2018 - 2020

Daman, Daman & Diu

Class-X CBSE

Kendriya Vidyalaya Sangathan

2010 - 2018

Multiple Locations

SKILLS

Programming Languages:

Python

Java

C/C++

JavaScript

Tools:

Git

Linux

Wireshark

Hydra

Nmap

Burpsuit

Metasploit

Hashcat

MySQL

Libraries/Frameworks:

Flask

Langchain

Llama index

Socket

Scapy

Telegram SDK

Discord SDK

Transformers

BeautifulSoup

Selenium

Object-Oriented Programming System

Data Structure and Algorithms

Web Dev

Computer Networking

Capture the Flags

Generative AI

Web Scraping

CLI Dev

STATS

- Under top 1% Hackers on **TryHackMe**
- Under top 10% Developers on **Github**
- 4-Star rated on Codechef; Rating 1800+
- Pupil rated on **Codeforces**; Rating 1300+
- 5-Star rated in C++, Python, Java, and Problem Solving on **HackerRank**
- Cleared JEE Mains and JEE Advanced