

MADHAV KUMAR

Software Developer | AI Engineer

@madhav.mknc@gmail.com

madhav-mknc.me

@5mknc5

madhav-iitd

madhav-mknc



PROJECTS

Miles AI: WhatsApp Co-pilot August 2024

- Developed a **PRM** system to impersonate users and reply on their behalf, enhancing conversation dynamics.
- Quickly gained popularity across the IITD campus and gathered **over 100 users** from **multiple countries** within a month.

AI Chatbot July 2023

- Built a chatbot with **LangChain + Pinecone** for context-aware custom data chat; production-ready RAG pipeline.

X-Tweet: Twitter Co-pilot November 2023

- Deployed a **Telegram bot** for personalized content generation.
- Used it to manage and enhance the user's X/Twitter presence.
- Finetuned GPT 3.5** for best quality content generation.

Medcare: AI Medical Assistant June 2024

- Automated clinical note-taking using AI for **EMR-ready** outputs.
- Built personalized patient follow-up system; Reduced burnout by streamlining healthcare workflows with GenAI.

Who-Is-Online January 2024

- Chrome extension** showing real-time users on any webpage.
- Enabled instant chatrooms for global user interaction.

PNP_Agent: Prediction Markets X Bot June 2025

- Built an **X/Twitter bot** that posts insights from **prediction market** data; Handles real-time user mentions and queries; delivers market summaries and tailored trading recommendations.

WORK EXPERIENCE

AI Engineer Hashed Ventures, Seoul, South Korea

May 2023 - Aug 2023

- Developed an internal Slack-based assistant enabling secure document chat and analysis on private company data; Implemented RAG using LangChain and Chroma database ^[1].

AI Engineer Lawrence, Switzerland (LegalTech Startup)

Nov 2023 - Feb 2024

- Developed a legal memo tool using LLMs to retrieve relevant Swiss laws, articles, and case precedents from legal statements; Iterated on models and prompts with rigorous **evaluation** to ensure legal relevance and accuracy ^[1] ^[2].

Software Developer PNP Exchange

Jun 2025 - Present

- Deployed **PNP_Agent**; Built a system to transform speculative market data into categorized, AI-generated news headlines with visual content; Designed scalable pipelines for ingesting, processing, and storing daily market signals on **Supabase** ^[1] ^[2].

PERSONAL RESEARCH

Researcher Indie Project - AEI

Dec 2024 - Present

- Researching **Artificial Emotional Intelligence (AEI)** and **Artificial Consciousness**; Exploring various **cognitive architectures** and building a foundational architecture for **autonomous behavior** ^[1].

EDUCATION

Bachelor of Technology

Major in Engineering Physics

Minor in Computer Science and Engineering

Indian Institute of Technology Delhi

2024

New Delhi, Delhi

TECHNICAL SKILLS

Programming:

Python TS/JS Java C/C++ Shell
AWS (Bedrock, S3, SageMaker, EC2) Azure
GCP Git Docker Kubernetes SQL

Infosec:

Wireshark Burpsuit Metasploit Hashcat

ML & AI:

Llama Index Langchain DSPy Chroma
Huggingface CrewAI Autogen Eliza OS
Pydantic AI MemO ACE Framework

Object-Oriented Programming System

DSA Web Dev Automation

Computer Networking Capture the Flags

Generative AI Web Scraping CLI Dev

ACHIEVEMENTS

- Start-up Mentor in **Samsung R&D SFT program**; team qualified as **Top 10 finalists**
- 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
- Under top 10% Developers on **Github**
- Under top 1% Hackers on **TryHackMe**