MADHAV KUMAR

Software Developer | Al Engineer

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PROJECTS

Miles AI: WhatsApp Co-pilot

Aug 2024

- Launched a Relationship Management (RM) platform using NLP models, and LangChain to analyze and generate context-aware replies and automate WhatsApp interactions.
- Grew to 200+ active users organically, driving viral engagement.

Al Chatbot

Jul 2023

- Designed a production-grade Retrieval-Augmented Generation (RAG) pipeline for private dataset queries.
- Reduced hallucinations by 60% through fine-tuned embeddings.

X-Tweet: Twitter Co-pilot

Nov 2023

- Created a **Telegram bot** using **GPT-4-Turbo** for personalized social media content creation, scheduling, and analytics.
- Fine-tuned LLMs on domain-specific datasets, increasing engagement metrics by 25%.

Medcare: Al Medical Assistant

Jun 2024

- Automated EMR-ready clinical documentation, reducing physician note-taking time by **90**%.
- Al-driven follow-up workflows raised patient recall by 20%.

Who-Is-Online

Jan 2024

• Published a **Chrome extension** with **JavaScript** and **WebSockets** turning each webpage into a real-time chatroom.

PNP Agent: Prediction Markets X Bot Ju

• Launched an Al-powered market analysis bot for X/Twitter that aggregates prediction market data, generates forecasts, and delivers real-time insights with Al-generated news and visuals.

WORK EXPERIENCE

Al Engineer

Hashed Ventures, Seoul, South Korea

May 2023 - Aug 2023

 Built a secure, on-prem Slack-based assistant for document Q&A on private company datasets, processing up to 100k+ documents with Chroma DB for real-time data retrieval ^[1].

Al Engineer Lawrence, Switzerland (LegalTech Startup)

Nov 2023 - Feb 2024

• Engineered a legal memo tool with LLM-based retrieval of Swiss laws, articles, and case precedents; iteratively optimized prompts and model parameters to ensure high legal accuracy [1] [2].

Software Developer

PNP Exchange

Jun 2025 - Present

 Deployed PNP_Agent to transform prediction market data into categorized Al-generated news and visuals; implemented scalable ETL pipelines using Supabase and microservices, scaling to process 500K+ market events daily. [1] [2].

PERSONAL RESEARCH

Researcher

Indie Project - AEI

Dec 2024 - Present

 Researching Artificial Emotional Intelligence (AEI) and Artificial Consciousness; designing modular cognitive architectures for adaptive autonomous agents [1].

EDUCATION

Bachelor of Technology

Engineering Physics (Major)
Computer Science and Engineering (Minor)

Indian Institute of Technology Delhi

□ 2024

New Delhi, Delhi

TECHNICAL SKILLS

Programming:

Python TypeScript JavaScript Java C/C++ Shell Golang SQL Git AWS (Bedrock, S3, EC2, RDS, Lambda) GCP Docker Kubernetes Azure

Infosec:

Wireshark Burp Suite Metasploit Hashcat

ML & AI:

Llama Index LangChain DSPy Chroma Hugging Face CrewAl Autogen Eliza OS Pydantic Al MemO ACE Framework

DSA Web Development Automation Computer Networking CTF Generative AI Web Scraping CLI Development OOPS

ACHIEVEMENTS

- Start-up Mentor in Samsung R&D SFT; team placed in Top 10 finalists.
- 4-Star on CodeChef; Rating 1800+.
- Pupil on Codeforces; Rating 1300+.
- 5-Star in C++, Python, Java, Problem Solving on HackerRank.
- Cleared JEE Mains and Advanced.
- Top 10% Developers on GitHub.
- Top 1% Hackers on TryHackMe.