KARTHICKKUMAR S

Krishnagiri, India

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Profile Summary

- **Prompt Engineer & AI Developer** experienced in designing and optimizing prompts for large language models, applying techniques such as zero-shot, few-shot, chain-of-thought, and structured outputs to deliver accurate, reliable, and cost-efficient AI responses.
- Proficient in **Python, FastAPI/Flask, and LLM API integration**, building and deploying GenAI-powered backend services with secure authentication, RESTful APIs, and scalable system architectures.
- Hands-on experience developing **end-to-end AI applications**, integrating embeddings, vector databases, and data pipelines, with a strong focus on performance, user experience, and Agile development practices.

Skills

Languages: Python, Java, JavaScript
GenAI & Prompting: Agentic AI, Large Language Models (LLMs), LLM APIs, RAG
Tools & Platforms: Git, GitHub, VS Code, ChatGPT, Gemini
Cloud & Deployment: GCP, Vercel, Netlify, Render
Databases: MongoDB, SQL, Vector Databases
Soft Skills: Adaptability, Critical Thinking

Experience

CODTECH IT Solutions – AI Intern   June 2025 – July 2025

- Completed a 4-week internship in Artificial Intelligence, working on applied ML and AI-driven application development.
- Implemented machine learning model integration into backend systems, supporting scalable and production-ready AI workflows.
- Collaborated on AI-based projects involving data preprocessing, feature engineering, and performance-focused problem solving.

View Certificate

Projects

Code Archeologist | *Agentic AI, Gemini 3, Next.js, FastAPI, MongoDB, System Design* | Try it live

- Developed an **autonomous multi-agent AI system** for legacy code analysis, security remediation, and modernization.
- Implemented **agentic planning, execution, and self-healing loops** using Gemini 3.
- Built and deployed a scalable full-stack application with robust error handling and automated testing.

AI Storyboard Director | *Python, Google Gemini API, Prompt Engineering* | Try it live

- Built a **GenAI application** that converts film ideas into structured, scene-by-scene cinematic storyboards using Google Gemini.
- Applied **prompt engineering and JSON-structured outputs** to ensure consistent generation of timelines, camera angles, and dialogue.

Education

Shree Venkateshwara Hi Tech Engineering College   Expected Graduation: 2027

B.Tech/ARTIFICIAL INTELLIGENCE AND DATA SCIENCE   **Erode**

Achievements

- Built 80+ projects across AI, GenAI, and full-stack development, with several production deployments and active GitHub contributions.

Participant – Multiple National & Intercollege Hackathons

- Built end-to-end AI/ML solutions under 24 – 48 hours constraints, recognized for innovation and teamwork.

Other Achievements

- 30th State Level Karate Championship (2016)
- 33rd South India Level Karate Championship (2018)
- No-Absentee Record + Academic Rank Holder (School Level)

Certifications

- AI for Business Professionals – HP LIFE   - View Certificate (2025)
- Internet of Things – IIT Kharagpur   - View Certificate (2025)
- AI Agent Studio Foundations Associate – Oracle   - View Certificate (2025)
- AI Tools & ChatGPT Workshop – be10X   - View Certificate (2025)