

Kanduri Adithya

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Summary

Highly motivated and passionate Software Developer with experience in full-stack web development, artificial intelligence, and deep learning-based applications. Skilled in React, FastAPI, Node.js, Python, and modern AI tools, with a strong focus on building scalable and intuitive user experiences. Proven track record in delivering end-to-end solutions across domains including AI agents, finance automation, pothole detection (CNNs), and video/text summarization.

Technical Skills

- **Programming Languages:** Java, Python, JavaScript, C/C++, HTML, CSS
- **Frontend Development:** React, Tailwind CSS
- **Backend Development:** Node.js, Express.js, FastAPI, RESTful APIs
- **AI & Machine Learning:** CNNs, NLP (spaCy, NLTK), LLM Integration, Model Fine-Tuning & Deployment
- **Databases:** PostgreSQL, MongoDB, SQL
- **Security & Authentication:** JWT, OAuth 2.0, HTTPS
- **Cloud Platforms:** Docker, CI/CD
- **Version Control & Tools:** Git, GitHub, Postman
- **Other Skills:** API Integration, Image Processing, Full-Stack Architecture, Scalable App Development

Projects

AI Shield — PII Detection & Redaction System

Tech: React, Flask, Vite, Tailwind, AssemblyAI, Groq, Chrome Extension.

- Built real-time PII detection & redaction pipeline using regex-based scanning and audio transcription.
- Developed Chrome extension with DOM monitoring for instant PII warnings.
- Integrated Llama 3.1 (Groq API) for sanitized LLM queries with complete audit logging.
- Designed secure multi-layer architecture ensuring no raw PII reaches external AI systems.

FinanceGPT — AI Financial Assistant

Tech: React, FastAPI, Node.js, Supabase, LangChain, Gemini Flash, Llama 3.2.

- Built multi-agent architecture (RAG, News, Image, Q&A) using LangChain and LangGraph.
- Integrated Gemini Flash for summarization and fine-tuned Llama 3.2 for financial sentiment analysis.
- Implemented Supabase PostgreSQL for user authentication and persistent chat history.
- Designed scalable pipeline enabling real-time financial insights and document processing.

SpotHole — Pothole Detection System

Tech: React, Vite, CNNs, FastAPI, Node.js, MongoDB.

- Built CNN-based pothole detection model with FastAPI inference backend.
- Created responsive UI in React/Vite for image uploads and detection previews.
- Managed MongoDB storage for user data, uploaded images, and detection logs.
- Optimized preprocessing pipeline to improve detection accuracy and speed.

Achievements

- 3rd Place — KMIT Codenovate (AI Shield)
- Hackathon participant — TKR Code Conquest
- Certified — Udemy (Full-Stack Web Development)
- KMFC Expo — Innovation Project Showcase

Education

Bachelor of Engineering (CSE-AI&ML)

Keshav Memorial Engineering College

08/2023 – Present | CGPA: 7.6/10.0

SSC

Dilsukhnagar Public School

06/2020 – 03/2021 | CGPA: 10.0/10.0