Meka Sriram

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CAREER OBJECTIVE

Computer Science (AI&ML) undergraduate with hands-on experience in LLM integration, FastAPI backend development, and full-stack application deployment. Seeking an AI/ML internship to contribute to scalable, production-ready systems.

EDUCATION

Prasad V. Potluri Siddhartha Institute of Technology **2023 − Present**

B.Tech in Computer Science and Engineering (AI & ML) - 3rd Year, CGPA: 8.49/10

Relevant Coursework: Data Structures & Algorithms, Computer Networks, Object-Oriented Programming (Java), DBMS, Operating Systems, Artificial Intelligence, Machine Learning, Cloud Computing

TECHNICAL SKILLS

Languages:	Java, Python, C, JavaScript
AI / ML:	Supervised & Unsupervised Learning, NLP, Prompt Engineering, LLM Integration, Data Preprocessing
Frontend:	HTML, CSS, Streamlit, React
Backend:	FastAPI, Node.js, Express.js
Databases:	MongoDB, MySQL
Tools:	Git, GitHub, VS Code, Jupyter Notebook, Vercel, Railway

PROJECTS

Flash Coach 🐙 GitHub 🌐 Live Demo (AI-Powered Coaching Platform)

- Designed and developed a full-stack, **AI-powered** just-in-time coaching platform providing real-time, contextual feedback using **Large Language Models** *(llama-3.3-70b-versatile, whisper-large-v3)*.
- Built a modern **Next.js (React) frontend** with responsive UI, Tailwind CSS styling, and an interactive 3D interface.
- Implemented a **FastAPI backend** to handle user requests, feedback, and sessions with a **MongoDB database**.
- Integrated **voice-based interaction pipelines** using **Groq Whisper Large V3** model for audio transcription and **text-to-speech (gTTS)**.
- Leveraged **Groq LLaMA 3.3 70B Versatile** to generate intelligent, context-aware coaching insights in real time.
- Added **multi-language support** using automated translation to improve accessibility for diverse user groups.
- Implemented **OTP-based secure authentication** using **PyOTP, QR-code–based TOTP, Google-Auth.**
- Designed a **mentor escalation system** which automatically triggers **email alerts to assigned mentors** in case of repeated negative coaching feedback, ensuring timely human intervention.

Tech Stack: Next.js, TS, Tailwind, React, FastAPI, Python, MongoDB, Groq API, SpeechRecognition, gTTS, REST APIs

LostNFound – Campus Lost & Found App 🐙 GitHub 🌐 Live Demo (Centralized campus item recovery platform)

- Designed and developed a **Full-Stack campus Lost-and-Found platform** to centralize reporting, discovery, and recovery of lost items in college environments.
- Built a **responsive front-end interface** for browsing, filtering, and posting lost or found items with modal-based authentication and form-driven workflows.
- Implemented a **RESTful backend** using **Node.js and Express.js** with structured routing for authentication, item management, and user operations.
- Designed **MongoDB data models** for users and items, enabling secure storage, categorization, and retrieval of records.
- Integrated **JWT-based authentication middleware** and added a **demo-mode fallback** for static deployments.

Tech Stack: HTML, CSS, JavaScript, Node.js, Express.js, MongoDB, REST APIs, JWT Authentication

CareMate HealthBot 🐙 GitHub 🌐 Live Demo (AI-powered healthcare guidance chatbot)

- Designed and developed an **AI-powered healthcare chatbot** leveraging **Large Language Models** *(gemini-2.0-flash)* to deliver personalized nutrition guidance, diet recommendations, symptom analysis, and mental health support.
- Implemented **intent detection** and **sentiment-aware interaction logic** to adapt chatbot responses and tone based on user input and emotional context.
- Architected a structured, file-based **Knowledge Base (KB)** to persist user profiles, medical records, diet history, and contextual health data with secure login and registration workflows.
- Integrated **Google Gemini API** *(gemini-2.0-flash)* for real-time, context-aware medical insights by dynamically injecting **user specific KB data** into prompts, enabling scalable personalization without rule-based mappings.
- Built an interactive **Streamlit web application** with **session management**, chatbot orchestration, and modular backend components supporting nutrition, symptom checking, fitness, and general health queries.

Tech Stack: Python, Gemini API, Streamlit, NLP, Sentiment Analysis, JSON-based Knowledge Base, REST APIs

CERTIFICATIONS & OTHERS

- Design and Analysis of Algorithms (NPTEL - IIT Madras)
- Java & Python (Spoken Tutorial - IIT Bombay)
- Google Cloud Computing Foundations (Google Cloud Skill Boost)
- Google AI-ML Virtual Internship (EduSkills)
- Problem Solving using C (BYTS)