Meka Sriram

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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

Programming Languages:	Java, Python, C
AI/ML & NLP:	Supervised & Unsupervised Learning, Model Building, Data Preprocessing
Databases:	MySQL, MongoDB
Frontend Development:	HTML, CSS, JavaScript, React
Tools & Platforms:	GitHub, VS Code, Jupyter Notebook

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 interfacer.
- 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 (whisper-large-v3)** for audio transcription and **text-to-speech (gTTS)**.
- Leveraged **Groq LLaMA 3.3 70B Versatile (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** where repeated negative coaching feedback automatically triggers **email alerts to assigned mentors**, ensuring timely human intervention.

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

LostNFound – Campus Lost & Found App ⚙ GitHub 🌐 Live Demo (Full-Stack Web Application)
- 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/found items with modal-based authentication and form-driven workflows.
- Implemented a **RESTful backend** using **Node.js and Express** 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 lost-and-found records.
- Integrated **JWT-based authentication middleware** and added a **demo-mode fallback** to gracefully handle back-end unavailability on static deployments.

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

CareMate HealthBot ⚙ GitHub 🌐 Live Demo (AI/ML, NLP)
- Designed and developed an **AI-powered healthcare chatbot** leveraging **Large Language Models (LLMs)** 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 the **Google Gemini API (Gemini-3 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)