TUMMALA MOHAN ADITYA

Artificial Intelligence │ Machine Learning │ Full Stack Web & App Developer
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SUMMARY

Motivated and analytical Computer Science student specializing in Artificial Intelligence and Full-Stack Development, with a strong foundation in data structures, system design, and object-oriented programming. Skilled in building scalable, responsive front-end interfaces using React, TypeScript, and modern CSS frameworks. Experienced in developing LLM-powered systems with clean architecture, reusable UI components, and real-time capabilities. Passionate about building user-centric applications, solving complex UI problems, and delivering production-ready code. Eager to bring front-end expertise and innovation to Amazon's customer-obsessed engineering teams.

EXTRA-CURRICULARS & VOLUNTEER WORK

1. Microsoft Learn Student Ambassador (MLSA)   **September 2024 - Present**
- Led AI/ML workshops and hackathons, impacting 500+ students by fostering collaboration and technical growth.
- Mentored peers on real-world applications of computer vision, LLMs, and API integration, enhancing team problem-solving.
- Collaborated with global ambassadors to build inclusive, cross-functional learning environments and drive community engagement.

2. Member – Google Developer Groups (GDG) KARE Student Chapter   **March 2023 - Present**
- Organized and facilitated bootcamps, hackathons, and tech talks on AI, ML, and full-stack development to upskill peers.
- Led peer-to-peer coding sessions and networking events to strengthen collaboration and hands-on problem-solving.
- Contributed to community growth by coordinating cross-functional teams and streamlining event execution.

3. Member – GeeksforGeeks (GFG) KARE Student Chapter   **Feb 2023 - Present**
- Participated in weekly DSA problem-solving sessions and peer mentorship circles to strengthen algorithmic thinking.
- Assisted in organizing coding contests and technical workshops, promoting collaborative learning and interview readiness.
- Mentored junior students to build strong foundations in data structures, algorithms, and competitive programming best practices.

EDUCATION

- **B.Tech, Computer Science & Engineering (AI & ML)**   **September 2022 - October 2026**
  Kalasalingam University
  - CGPA: 9.02/10
  - Specialization in Artificial Intelligence and Machine Learning

- **Senior Secondary (XII), Sri Chaitanya Jr College**   **August 2020 - March 2022**
  - AP State Board, 2020 – 2022
  - Score: 933 / 1000 (93.3%)

TECHNICAL SKILLS

- **Languages:** TypeScript, JavaScript, Python, Java, C++
- **Frontend Frameworks & Libraries:** React, Next.js, Tailwind CSS, Monaco Editor, Flutter
- **Backend & API Development:** NestJS, Flask, Node.js, RESTful API Development
- **AI & LLM Technologies:** LLMOps, Prompt Engineering, Gemini API, RAG Pipelines, Vector DBs (FAISS), Agentic Frameworks
- **UI/UX & Design:** Responsive Web Design, Reusable Component Libraries, Dark Mode Design, Real-time Data Visualization
- **Databases:** MongoDB, MySQL, Firestore (Firebase), Supabase
- **Cloud & DevOps:** Google Cloud Platform (GCP), GitHub Actions, Render, Netlify
- **Development Tools:** Git, CI/CD Pipelines, Agile Workflow, Version Control, Android Studio
- **Core CS Domains:** Data Structures & Algorithms, Object-Oriented Programming (OOP), Operating Systems, DBMS, Distributed Systems

CERTIFICATIONS

- Data Structures and Algorithms - Udemy (Competitive programming)
- Python Programming - Udemy (OOP, data types, file handling, APIs)
- Deep Learning and AI with Python - Udemy (TensorFlow, neural networks, CNNs)
- DBMS – CodeChef (SQL queries, indexing, relational design)
- Java Programming – Udemy (Core Java, multithreading, collections)

PROJECTS

1. DevSensei - AI-Powered Code Understanding & Generation Platform

- Designed and built an intelligent web application to analyze and optimize source code using generative AI.
- Developed a responsive frontend with real-time code execution, live UI previews, and GitHub repository integration.
- Leveraged Gemini API for contextual code explanation, debugging, and optimization workflows.
- Enabled multi-framework UI generation using Monaco Editor and AI-based retrieval-augmented generation (RAG).

Tech Stack: React, TypeScript, Tailwind CSS, Monaco Editor, Gemini API, GitHub Token, RAG.

2. AttendMark – Wi-Fi Based Secure Attendance Tracking System

- Engineered an Android application to automate and secure classroom attendance using device-level authentication.
- Used Wi-Fi SSID and hardware ID matching to verify student presence, preventing proxy attempts.
- Integrated Firebase Realtime DB for secure, scalable session logging and live attendance tracking.
- Implemented faculty-side export features and Excel report generation for administrative use.

Tech Stack: Computer Networks, Flutter, Firebase Realtime DB, Wi-Fi APIs, Excel Libraries

3. SafeTour – AI-Powered Travel Safety & Financial Planning Platform

- Built a full-stack platform that delivers real-time travel insights, safety alerts, and budgeting support.
- Integrated air quality, geolocation, and emergency APIs to provide dynamic route safety suggestions.
- Developed an AI-powered budgeting assistant that adapts to spending behavior and location costs.
- Focused on backend automation, scalable design, and real-time analytics for smarter decision-making.

Tools used: Next.js, Node.js, Express, MongoDB, Firebase, Google Maps API, Gemini API.

LANGUAGES

- Telugu (Native).
- English (Fluent).
- Hindi (Intermediate).
- Tamil (Basic).

ACHIEVEMENTS

- Runner-up in CodeChef Codetest
- 1st Prize in AR/VR Challenge
- Runner-up in GenAI Challenge by Google Developer Groups
- 1st Prize in Cybersecurity OWASP Hackathon