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 Machine Learning. Skilled in full-stack development, data-driven decision-making, and building secure, scalable systems using Java, Python, and modern frameworks. Proven ability to lead high-impact tech projects, integrate APIs, and apply AI to real-world business problems. Strong foundation in software engineering, problem-solving, and delivering innovative solutions in fast-paced environments. Seeking to contribute technical and analytical expertise in a dynamic financial technology setting.

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:** Python, Java, JavaScript, C++, Dart, Kotlin.
- **Frameworks/Tools:** Flutter, Firebase, OpenCV, TensorFlow, Flask, Git, FAISS, Streamlit, Gradio.
- **Domains:** Machine Learning, Deep Learning, Full Stack Web & App Development, Computer Vision, GenAI, DBMS,OS.
- **Databases:** MySQL, MongoDB, Firestore(Firebase).
- **Platforms & Cloud:** Google Cloud Platform (GCP), Android Studio, GitHub, Render, Netlify.
- **Other Skills:** RESTful API Development, Real-time Data Visualization, Version Control, UI/UX Design (Dark Mode), Responsive Web Design

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

Developed a modern, responsive frontend to support AI-driven code analysis and generation. Integrated Gemini for code explanation, debugging, and optimization workflows. Implemented features like GitHub repository exploration, real-time code execution, and documentation. Enabled multi-framework UI generation with live preview and editor functionality.

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

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

Developed an Android app to automate classroom attendance using Wi-Fi-based authentication. Verified student identity through device hardware ID and institutional email to prevent proxies. Enabled real-time session management, attendance logging, and export to Excel by faculty. Ensured secure, accurate tracking by applying networking concepts and Firebase integration.

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

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

Built a full-stack platform for real-time travel safety and planning. Integrated geolocation, air quality, and emergency APIs to deliver dynamic safety alerts and route suggestions. Added an AI-powered budgeting assistant to track expenses and suggest optimal spending plans. Implemented AI-driven financial planning to adjust budgets based on spending patterns and location costs.Focused on backend automation, real-time analytics, and user-centric design for smarter travel decisions.

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