



MAHITHA CHIPPA

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EDUCATION

VNR Vignana Jyothi Institute of Engineering & Technology	2023 - 2027
B.Tech in Computer Science and Engineering (Artificial Intelligence and Machine Learning)	CGPA: 9.10
Sri Chaitanya Junior Kalasala	2021 - 2023
Board of Intermediate Education, Telangana	Percentage: 96.5
The Mother's Integral School	2020 - 2021
Central Board of Secondary Education	CGPA: 10.0

PROJECTS

Blockchain-Based Prescription Verification System — React.js, Blockchain, Solidity, Hardhat, Firebase, Node.js

- Built a decentralized prescription verification system enabling secure QR-based validation and reducing prescription duplication/fraud by **90%**.
- Integrated Hardhat-based blockchain deployment with Firebase authentication, supporting **100+ secure logins** and achieving a validation speed of **<2 seconds**.

Real-Time Train Simulator & CP-SAT Optimizer — FastAPI, React, OR-Tools

- Built a real-time rail simulator handling **50+ trains** with headway/dwell enforcement, delays, and disruptions using **sub-second updates** and **100+ events/min**.
- Developed a CP-SAT dispatch optimizer generating conflict-free, priority-aware schedules in **0.5–2s**, reducing conflicts by **95%** and improving timetable adherence by **40%**.

AI-Driven Deepfake & Suspicious Activity Detection System — HAR, YOLO, XGBoost, OpenCV

- Built a recruitment-security pipeline detecting **deepfakes, spoofing, impersonation, and external assistance** with **92% accuracy** using YOLO, HAR tracking, and XGBoost.
- Processed **1000+ video frames/sec**, flagging suspicious actions in **real time (<1s latency)**, improving interview integrity by **85%** at VibeathonX 2025.

PROFESSIONAL SKILLS

Programming Languages	C, C++, Python, R, JavaScript, SQL
Web Technologies	HTML, CSS, Bootstrap, Tailwind, React.js, Next.js, Node.js, Express.js, Flask
Databases	MongoDB, MySQL, Firebase, Supabase
Developer Tools	GitHub, VS Code, Jupyter, Google Colab, Docker, Tableau, Power BI
Blockchain	Ethereum, Web3.js
Coding Profiles	LeetCode , CodeChef , HackerRank

CERTIFICATIONS

- Google Cloud Skills Boost: [Public Profile](#)
- [Blockchain and its Applications by NPTEL](#)
- Stanford ML Specialization: [Certification](#)
- [Smart Coder](#) - Smart Interviews
- [Oracle Certified Foundations Associate](#)
- Google AI Essentials: [Certification](#)

POSITION OF RESPONSIBILITY & EXTRACURRICULARS

Entrepreneurship Development Cell – Volunteer	Jan 2025 - Present
Indian Society for Technical Education (ISTE) – Action Committee	2024 - Present
Editorial Board of the College Magazine Vignana Vahini – Member	2024 - Present

CO-CURRICULAR & ACHIEVEMENTS

- **Runner-up – Hacktivate 2025 (Team Lead)** — National Hackathon by GeeksforGeeks, Anurag University, with 700+ participants. Led a 4-member team to build a blockchain-based prescription verification system.
- **Second Prize – VibeathonX 2025 (Team VADAPAV)** — Won 2nd place among **120+ teams** for developing an AI system detecting deepfakes, impersonation, and suspicious activity using **HAR, YOLO, and XGBoost**.
- **Qualified – Smart India Hackathon (SIH) 2024 & 2025** — Qualified internal rounds for **two consecutive years**, ranking in the top **20 teams out of 120+** (700 participants) at VNR VJIET.
- **Top 5 Finalist – Krithoathon 24-Hour Hackathon** — Selected in the top 5 among **90+ teams** for developing a traffic management system prototype.