

# MAHITHA CHIPPA

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## EDUCATION

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

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

## 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

<b>Entrepreneurship Development Cell – Volunteer</b>	Jan 2025 - Present
<b>Indian Society for Technical Education (ISTE) – Action Committee</b>	2024 - Present
<b>Editorial Board of the College Magazine Vignana Vahini – Member</b>	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 VJET.
- **Top 5 Finalist – Krithoathon 24-Hour Hackathon** — Selected in the top 5 among **90+** teams for developing a traffic management system prototype.