

BUCHIREDDYGARI MOHAN SAI

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SUMMARY

Motivated Computer Science student with a strong interest in Software Development, Artificial Intelligence/Machine Learning, and Full Stack Development. Eager to apply technical skills in building scalable applications and innovative solutions in a dynamic engineering environment.

EDUCATION

AMRITA VISHWA VIDYAPEETHAM, COIMBATORE, INDIA	2023 – PRESENT
B.Tech in Computer Science & Engineering	CGPA: 8.19/10.0
SRI CHAITANYA JR. COLLEGE	2021 - 23
Intermediate (Mathematics, Physics, & Chemistry)	93.4%
DR. KKR GOWTHAM SCHOOL	2020 - 21
SSC State Board	100%

EXPERIENCE

Software Development Intern @ Blue Stock <i>ML Stock Market Analysis</i>	OCTOBER 2025 – NOVEMBER 2025
	Remote
<ul style="list-style-type: none">Engineered an automated data pipeline to fetch and process financial statements (Balance Sheet, P&L, Cash Flow) via REST APIs.Integrated Machine Learning algorithms to generate real-time financial insights, optimizing data persistence using a MySQL database.Developed a dual-interface display system (Web & Terminal) to visualize analytical results for immediate stakeholder review.Tech Stack: Python, Flask, React, MySQL	

PROJECTS

AI-Enabled Crop Disease Diagnosis System GitHub Link	
<ul style="list-style-type: none">Engineered an intelligent diagnostic platform leveraging Computer Vision to detect crop diseases and recommend context-aware remediation strategies based on environmental data.Implemented native language voice assistance and simplified visual workflows to ensure accessibility for farmers with varying literacy levels.Designed for rural resilience with offline data caching, geospatial outbreak mapping, and community expert integration.Tech Stack: React Native, Python (Flask), TensorFlow, OpenCV, Google Gemini API, SQLite	
Edge-Based V2X Protocol GitHub Link	
<ul style="list-style-type: none">Optimized emergency traffic response times by implementing custom pathfinding algorithms including Fuzzy Logic and Genetic Algorithms.Simulated and validated traffic rerouting strategies using SUMO for smart city infrastructure scenarios.Focused on edge computing principles to reduce latency in Vehicle-to-Everything (V2X) communication.Tech Stack: SUMO, Python, Genetic Algorithms	
ShopsBuzz – E-Commerce Platform GitHub Link	
<ul style="list-style-type: none">Architected a full-stack e-commerce solution, designing a relational MySQL database to manage complex product catalogs, user sessions, and transaction histories.Developed a backend using Node.js and Express for secure authentication and order processing workflows.Tech Stack: JavaScript, MySQL, HTML/CSS, Express, Node.js	

SKILLS

Languages: Python, Java, C, Haskell, SQL, TypeScript

Web/Mobile: React Native, React.js, Node.js, Express.js, Flask, HTML, CSS, JavaScript

Data Science & AI: Machine Learning, OpenCV, TensorFlow, Google Gemini API, Pandas, Scikit-Learn

Tools & Platforms: Git/GitHub, Streamlit, Webots, SUMO, Keil uVision (STM32), VS Code, Wireshark

Soft Skills: Team Work, Time Management, Communication, Adaptability

CERTIFICATIONS/EXTRA-CURRICULARS

- Software Development Intern:** Practical industry experience in development cycles.
- NPTEL Elite Certification:** Data Science for Engineers (Top 2%) – IIT Madras (2025).
- Adobe Hackathon 2025:** Participated in competitive problem solving and rapid prototyping.
- Complete Python Developer:** Comprehensive training bootcamp on Udemy.