

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

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|--|-----------------|
| 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

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|---|------------------------------|
| 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

Edge-Based V2X Protocol | GitHub Link

- 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

- 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

Customer Churn Prediction | GitHub Link

- Built an end-to-end Machine Learning pipeline to identify at-risk customers.
- Deployed the model using a Streamlit dashboard, providing interactive predictive analytics.
- Achieved high accuracy using ensemble methods like Random Forest.
- Tech Stack:** Python, Pandas, Scikit-Learn, Streamlit

SKILLS

Languages: Python, Java, C, Haskell, SQL

Web Development: React.js, Node.js, Express.js, Flask, HTML, CSS, JavaScript

Data Science & AI: Machine Learning, Computational Intelligence, 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.