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: 8.03/10.0

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   OCTOBER 2025 – NOVEMBER 2025
ML Stock Market Analysis   Remote

- 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

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.