Ahin Satheesh

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Summary

Final-year B.Tech CSE student with strong computer science fundamentals and hands-on experience in full-stack development and machine learning. Passionate about building **scalable, efficient software systems** and applying **DSA and problem-solving** skills to develop real-world applications and contribute to impactful engineering projects.

Technical Skills

- **Languages/CS Fundamentals:** Java, Python, C, JavaScript, SQL, OOP, DSA, DBMS, OS, CN
- **Frameworks/Libraries:** MERN Stack, TensorFlow, scikit-learn, pandas, NumPy
- **Cloud/Tools:** Docker, Git, GitHub, Google Colab, Render

Education

CUSAT – Cochin University of Science and Technology **Apr 2026 (Expected)**
*B.Tech in Computer Science and Engineering — **CGPA: 8.3/10*** *Kochi, Kerala*

Experience

Tata Consultancy Services (TCS) **May 2025 – July 2025**
Summer Intern – Data Science / Machine Learning *Hybrid*

– Engineered a **telecom churn prediction system** using **ANN (TensorFlow/Keras)** with SMOTE, improving recall by **18%**.
– Optimized model selection and tuning to achieve **85% accuracy, 83% precision, 81% recall**, enabling actionable customer retention strategies.

Projects

Customer Churn Prediction (ML) | Python, ANN, SMOTE

– Processed and balanced telecom dataset using feature engineering and **SMOTE** for accurate churn classification.
– Benchmarked Logistic Regression, Random Forest, XGBoost, and ANN; finalized ANN with **85% accuracy**, **83% precision**, and **81% recall**, improving recall by **18%**.
– Generated insights to support strategic decision-making in telecom customer retention.

Zerodha Clone – Online Stock Trading Platform | MERN Stack, APIs

– Developed a full-stack trading web app replicating Zerodha's core functionalities using **React.js, Node.js/Express, and MongoDB**, featuring user authentication and real-time stock data integration.
– Optimized API calls and UI rendering to reduce data load latency by 40%, and deployed the platform on **Render** ensuring high uptime and responsiveness.

EV Infrastructure Optimizer | Next.js, FastAPI, Geospatial APIs, ML

– Developed a full-stack platform to **plan and optimize EV charging infrastructure** using geospatial discovery, carbon-aware analytics, and predictive maintenance.
– Built an interactive **Leaflet-based map UI** with OpenChargeMap API for site discovery and POI scoring; integrated carbon intensity data for energy mix visualization and dynamic pricing.
– Implemented FastAPI backend with scoring engine, CO analytics, and **predictive maintenance endpoints** (30-day risk forecasts), enabling data-driven infrastructure planning.

Certifications

Oracle Cloud Infrastructure 2025 AI Foundations Associate (Score: 98%) **August 2025**
NPTEL – User-Centric Computing for HCI (Elite, 84%) **March 2025**