ASHWITHA C

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PROFILE

Data-focused developer with hands-on experience in machine learning, predictive analytics, and data-driven application development. Skilled in transforming real-world datasets into actionable insights through statistical analysis, ML models, and visualization, with a strong research mindset and practical exposure to cloud-based data workflows.

EDUCATION

Coimbatore Institute of Technology, *M.sc, Decision and Computing Sciences*   2023 – 2028 | Coimbatore, India
CGPA: 9.156 (Upto 5th semester)

SKILLS

Programming Languages: Python, SQL, Java, C | **Data Analysis:** Data Cleaning, Exploratory Data Analysis (EDA), Statistical Analysis | **Machine Learning & AI:** Supervised & Unsupervised Learning, Regression, Classification, Clustering, Model Evaluation | **Deep Learning:** CNNs, Image Classification | **Cloud & Tools:** GCP, GitHub, Power BI | **Core CS:** DSA, OOP, DBMS, OS(Basics) | **Professional Skills:** Problem Solving, Analytical Thinking, Research Mindset

INTERESTS

Data Science & Analytics | Machine Learning | Artificial Intelligence | Databases | Generative AI | Agentic AI

EXPERIENCE

Editing Head, *403 Strats Club - Coimbatore Institute of Technology*   06/2025 – Present
- Designed *25+* event creatives using a data-driven approach, boosting social media reach by *30%.*

PROJECTS

Phishing URL Detection System, *Tools Used: XGBoost, scikit-learn* 🔗   02/2025 – 04/2025
- Trained an XGBoost classifier on *10,000 URLs* using *20* engineered features, achieving *86.6% test accuracy* with *5-fold cross-validation.*
- Delivered strong classification performance with an *F1-score of 0.868*, accurately detecting phishing and legitimate URLs.

Student Dropout Prediction, *Tools Used: Gradient Boosting, Random Forest* 🔗   08/2025 – 11/2025
- Engineered a predictive ML system for *10,000 students* using 1*5 features*, achieving *81% accuracy* and *0.87 AUC* with Gradient Boosting.
- Delivered data-driven insights for *early intervention* and *personalized learning pathways*, enhancing retention by *35%*.

AI-Powered Option Pricing Platform,   02/2025 – 04/2025
Tools Used: JAX, yFinance, OpenAI API, Plotly 🔗
- Developed a platform for *option pricing, implied volatility* calculation leveraging **JAX** for fast numerical computation and **yFinance** for *real-time stock* and *historical market data*.
- Integrated a *AI financial assistant* for market analysis and trading insights, enabling interactive data-driven decision-making for users.

ACHIEVEMENTS

Research and Publication, *IJRTI* 🔗   09/2025
Co-authored research on Phishing URL detector using XGBoost achieving 86.6%accuracy on 10,000 URLs.

Google Cloud Platform (GCP) 🔗   11/2025
Completed *19* GCP skill badges, applying cloud-based data and compute services to ML/AI workflows.

LeetCode 50-Days Badge 🔗
Solved problems consistently for *100+ days*, including SQL and algorithm challenges

EY Techathon 6.0
Shortlisted in Round 2 out of *1,83,253+* registrations, developing a *smart vehicle* technology solution

TechSprint 2025 – Google Campus Edition 🔗
Shortlisted as *Top 20 teams* out of *400+ registrations*, developing an innovative *SmartWallet – vault - based solution*.

CERTIFICATIONS

Oracle 🔗 — Database Fundamentals

Accenture 🔗 — Data Analytics and Visualization Job Simulation

Trainity 🔗 — Data Analytics Virtual Internship (3 Months)

IBM SkillsBuild 🔗 — Cloud Computing