

ASHWITHA C

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PROFILE

Full-Stack Developer with experience building and deploying scalable web applications using modern technologies. Strong problem-solving skills, adaptable mindset, and commitment to continuous learning through real-world projects. Actively developing expertise in DevOps practices and cloud technologies.

EDUCATION

Coimbatore Institute of Technology, M.sc, Decision and Computing Sciences
CGPA: 9.156 (Upto 5th semester)

2023 – 2028 | Coimbatore, India

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 **15 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