




# ASHWITHA C

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 <https://ashwithaportfolio.netlify.app/>    [github.com/ashhwiithac22](https://github.com/ashhwiithac22)    <https://leetcode.com/u/ashhwiithac22/>

## 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