

Ajilash Edward A

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SUMMARY

Computer Science graduate with a strong foundation in programming, data structures, and software development. Passionate about building efficient and scalable solutions, with hands-on experience in academic projects involving machine learning and application development. Eager to contribute technical skills and grow in a dynamic work environment.

SKILLS

Programming Languages: Python, Java, C, SQL
Spoken Languages: English, Malayalam, Tamil
Tools: Git, VS Code, Jupyter Notebook, Microsoft Excel, PowerPoint, Word
Concepts: Object-Oriented Programming, Data Structures & Algorithms
Soft Skills: Communication, Teamwork, Problem Solving, Time Management, Creativity

EDUCATION

B.Tech in Computer Science and Engineering CGPA: 7.29/10 **2022 – 2026**
Carmel College of Engineering and Technology *Kerala, India*

EXPERIENCE

AI/ML Intern **Jan 2025 – Feb 2025**
ICT Academy Kerala – Technopark *Trivandrum, Kerala*

- Engineered preprocessing pipelines for real-world datasets using pandas and NumPy, improving data quality for downstream ML tasks.
- Implemented and evaluated classification and regression models using scikit-learn, achieving satisfactory performance benchmarks on test datasets.
- Deployed models following industry-standard AI/ML workflows, gaining hands-on experience with version control and collaborative development practices.

PROJECTS

Pulmo Care – Early Detection of Lung Disease **April 2026**
Python, TensorFlow, PyTorch, InceptionV3, Vision Transformer

- Engineered a hybrid CNN + Vision Transformer model to classify lung conditions from chest X-rays, achieving **98% accuracy** on a **10,000+ image** dataset.
- Integrated Grad-CAM explainability to generate heatmaps highlighting affected lung regions, improving clinical transparency and model interpretability.
- Deployed a full-stack web interface for real-time image upload and diagnosis; awarded **2nd Prize** at an International Conference on AI Driven Transformation in Commerce.

Crop Intelligence System **Jan 2025**
Python, Flask, React

- Designed a full-stack agricultural data analysis tool processing soil and climate datasets across **10+ crop categories** to generate data-driven recommendations.

- Applied statistical analysis techniques to identify trends and patterns, improving recommendation accuracy over a rule-based baseline.
- Built an interactive React frontend connected to a Flask REST API, enabling real-time data visualisation for non-technical users.

Blood Management System

Aug 2024

Next.js, MongoDB, Node.js

- Architected a full-stack web application centralising donor registration and blood inventory tracking for blood banks, supporting **5+ blood groups** with real-time availability.
- Implemented RESTful API endpoints for real-time blood availability lookup, reducing manual record-keeping effort by an estimated **60%**.
- Designed a fully responsive UI using Next.js with seamless frontend-to-database data flow via MongoDB.

CERTIFICATIONS

NPTEL – Programming in Java

2024