

Ayan Maity

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EDUCATION

Adamas University

Master of Computer Application (MCA) - **Pursuing**

2024 - 2026

Barasat, West Bengal

Contai College of Learning and Management Science

Bachelor of Computer Application (BCA) - **CGPA - 8.27**

2021 - 2024

Contai, West Bengal

PROJECTS

Multimodel Crop Disease Prediction System 🚀 | [Python](#), [TensorFlow](#), [Scikit-learn](#), [Google Colab](#) April 2026

- Built an ESP32-based IoT device with DHT22 and soil moisture sensors that sends real-time environmental data to a Flask backend every 30 seconds over WiFi
- Developed a multimodal deep learning model using EfficientNetB0 fine-tuned on PlantVillage dataset (87,000+ images, 38 disease classes) with a late fusion architecture that combines leaf image predictions with live sensor data for higher accuracy
- Integrated Grad-CAM explainability to generate heatmap overlays on leaf images highlighting diseased regions, making AI predictions transparent and interpretable
- Deployed a real-time Streamlit dashboard showing live IoT sensor metrics, disease prediction results, Grad-CAM heatmap, and treatment recommendations with TFLite export for offline mobile use

Stock Trading Platform (Zerodha Clone) 🚀 | [React](#), [Node.js](#), [Express.js](#), [MongoDB](#), [AWS](#) Nov - Dec 2025

- Built a responsive multi-page React frontend with reusable components and React Router for client-side navigation across Landing, Dashboard, Product, Pricing, and Support pages.
- Developed a RESTful backend using Node.js and Express.js with MongoDB, designing Schemas Models for user and holdings data and exposing tested CRUD API endpoints
- Integrated live Stock Market APIs to fetch real-time data and visualized portfolio performance on an interactive dashboard using Chart.js with secure JWT-based User Authentication
- Wrote unit tests with JEST for backend logic and deployed the full-stack application to AWS for production availability.

Personal Portfolio Website 🚀 | [HTML5](#), [CSS3](#), [JavaScript](#), [Tailwind CSS](#)

Sep 2025

- Designed and developed a fully responsive personal portfolio website to showcase projects, skills, and services with an engaging UI/UX.
- Implemented smooth animations, scroll effects, and a clean UI/UX layout.
- Integrated project showcase, contact form.
- Optimized performance with lazy loading, image compression, and SEO best practices

TECHNICAL SKILLS

Languages: JavaScript, Python, C/C++

Technologies/Frameworks: HTML5, CSS3, JavaScript, React.js, Node.js, Express.js, Tailwind CSS

Databases: SQL (MySQL), NoSQL (MongoDB)

Developer Tools: VS Code, Git and GitHub, Postman

IT Constructs: Computer Networks, Cyber Security, DSA, DBMS, OS, OOPS

CERTIFICATIONS

- React JS Foundation Course - Scholarhat