

Aadi Jain

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Education

Vellore Institute of Technology, Bhopal

Sept 2022 – Current

B.Tech. in Computer Science Engineering

CGPA: 8.75

AP Public School, Farrukhabad

2022

CBSE Percentage: 88.8%

Little Angels High School, Gwalior

2020

CBSE Percentage: 93.2%

Technical Skills

Programming Languages: Python, C++, C, Java, SQL, JavaScript, HTML, CSS

Machine Learning & AI: Transformer Models, NLP, CNNs, Deep Learning, Data Preprocessing

Software & Tools: MySQL, Linux, AWS, Postman API.

Experience

Software Developer – EncureIT Systems Pvt Ltd

Feb 2025 – May 2025

- Modernized anomaly detection using YOLOv12, achieving a measured 45% improvement in precision and improving speed of image-based data inspection tasks, increasing throughput by 200 images per minute.
- Refactored backend architecture with FastAPI, Redis caching, and modular API endpoints, resulting in a 30% reduction in data response latency during high-load operations.

Projects

Dementia Prediction Model (Python, PyTorch)

[GitHub](#)

- Built a dementia predictive model using Python and Random Forest, achieving 93% accuracy on a 373 observation OASIS dataset.
- Led coding and machine learning implementation, preprocessing 15+ features and producing 8 visualizations (e.g., scatter, heatmap) to analyze dementia patterns.

KrishiAI (TensorFlow, IoT, ReactJs)

[GitHub](#)

- Achieved 95.3% accuracy in soil health classification using advanced predictive modeling, optimizing agricultural decisions.
- Engineered KrishiAI's architecture with Arduino sensors (3 types: moisture, TMP36, gas), Flask backend, and React frontend.

FaceRecogPro (OpenCV, Tkinter, Haar Cascade, LBPH)

[GitHub](#)

- Developed a real-time desktop application for student identification and automated attendance using Python, OpenCV, Tkinter, Haar Cascade, and LBPH, enhancing classroom management efficiency.
- Achieved 75–80% facial recognition accuracy with 400 image samples per student, significantly reducing manual errors in attendance tracking.simulations, reducing latency by 40%.

Achievements & Certifications

Achievements

- **IEEE**, 2023: Ranked in the top 500 in MOVE-A-THON, conceptualizing AI solutions for 10 urban traffic scenarios, evaluated over 3 rounds in 2 days.
- **IGDTUW**, 2023: Enhanced platform usability as a UI/UX Hackathon finalist, improving experience for users.
- **EY Techathon 5.0**, 2024: Designed an innovative AI model for the medical field, tackling critical healthcare challenges with cutting-edge technology.
- **Zelestra X AWS ML Ascend Challenge (2nd Edition)**, 2025: Ranked in top 325 teams with 89.80% accuracy, developing ML models for solar energy forecasting.

Certificates:

Machine Learning & AI – Coursera (2024), Data Analytics – Accenture (2023), Postman API Certification – Postman Academy (2023), Cloud Computing – NPTEL (2024), AWS Solutions Architect- Associate Certification Program - Ethnus (2025), GenAI - IBM (2025), Operating System - Saylor Academy (2025), Marketing Analytics – NPTEL (2025).

Extracurricular

- Led an environmental conservation event for NTC Club mobilizing 200+ students through a themed painting competition.
- As a Core Member of the Photography and Videography Club within AdvITYa, led production of high- impact event videos, reaching 2000+ audience.
- Crafted a voice-controlled AI quiz for Google's Actions platform in Jan '20, achieving a 90% user completion rate, uncovering key insights into voice application engagement, and winning goodies for the project.