

# Aadi Jain

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## Education

**Vellore Institute of Technology, Bhopal**

*B.Tech. in Computer Science Engineering*

Sept 2022 – Present

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 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 on Tinkercad, Flask backend, and React frontend.

**FaceRecogPro** (OpenCV, Tkinter, Haar Cascade, LBPH)

[GitHub](#)

- Developed a real-time desktop application for student identification and automated attendance 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.
- IGDTUW, 2023:** Collaborated with a team to create Figma-based prototypes for an educational platform improving the learning experience for students.
- EY Techathon 5.0, 2024:** Designed an innovative AI model for the medical field, tackling critical healthcare challenges with cutting-edge technology.
- Zelextra 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:

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

## Extracurricular

- Led an environmental conservation event for NTC Club mobilizing 200+ students through a themed painting competition.
- Mentored 25+ club members in advanced videography and editing techniques, producing high-impact videos for AdvITyA, engaging 2,000+ attendees and enhancing club's production quality.
- 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.