

Aadi Jain

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Summary

- A problem-solver with a solid foundation in C/C++ and system-level programming, eager to learn, build, and contribute to practical engineering projects. Focused on developing reliable solutions, improving technical skills, and growing through hands-on experience.

Education

Vellore Institute of Technology, Bhopal
B.Tech. in Computer Science Engineering

Sept 2022 – July 2026
CGPA: 8.61

Technical Skills

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

Machine Learning & AI: Transformer Models, 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

KrishiAI (TensorFlow, IoT, ReactJs)

Jun 2024 - May 2025

- Optimized agricultural decisions by classifying soil health with **95.3% accuracy** using advanced predictive modeling and integrated IoT sensor systems using **Arduino on Tinkercad** to collect real-time agricultural data.
- Engineered KrishiAI's core architecture, developing a robust **Flask backend** for data processing and **API management** and an **interactive React frontend** for intuitive user interaction and data visualization.

FaceRecogPro (OpenCV, Tkinter, Haar Cascade, LBPH)

Feb 2024 - May 2024

- Achieved **75–80% facial recognition accuracy** with **400 image samples per student**, significantly reducing manual errors in attendance tracking.
- Integrated robust **data storage and retrieval mechanisms** for attendance records, **leveraging CSV files** for efficient logging and easy access, thereby enabling detailed reporting and analysis to inform administrative decisions.

Dementia Prediction Model (Python, PyTorch)

Nov 2023 - Dec 2023

- Developed a dementia predictive model (**Python**, **Random Forest**), achieving **93% accuracy** on **373 observations** and identifying XGBoost as top performer with **96% accuracy**, **91.04% F1**, and **87.50% recall**.
- Led coding and machine learning implementation, preprocessing **15+ features** and **producing 8 visualizations** (e.g., scatter, heatmap) to analyze dementia patterns.

Achievements

- Oracle Cloud Infrastructure 2025 Certified Data Science Professional (2025):** Validated skills in **OCI Data & AI services**, **ML model development**, **deployment**, and **optimization**.
- 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.
- EY Techathon 5.0, 2024:** Designed an innovative AI model for the **medical field**, **tackling critical healthcare challenges**.
- IEEE, 2023:** Ranked in the **top 500** in **MOVE-A-THON**, conceptualizing AI solutions for **10 urban** traffic scenarios.

Extracurricular

- Supervised NTC Club's environmental event, engaging **200+ students** in 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.