Aadi Jain

✉ aadijainadj@gmail.com | 📞 +91 7746910931 | 🔗 LinkedIn | GitHub | 🌐 Portfolio | </> LeetCode

EDUCATION

Vellore Institute of Technology   Sept 2022 - July 2026
B.Tech in Computer Science and Engineering   ***CGPA: 8.61***

TECHNICAL SKILLS

Programming Languages: Python, C++, C, SQL, JavaScript, HTML, CSS
Machine Learning & AI: Transformer Models, NLP, CNNs, Deep Learning, Data Preprocessing
Software & Tools: MySQL, Linux, AWS, Postman API

EXPERIENCE

AI Software Developer Intern | 🔗   Feb 2025 - May 2025
EncureIT Systems Pvt Ltd   *Remote*
- Modernized anomaly detection using YOLOv12, achieving a **45% improvement** in precision and accelerating 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.
- Implemented automated testing, reducing bug detection time and enhancing software reliability across modules.

PROJECTS

KrishiAI | *TensorFlow, IoT, React.js* | ⭘   Jun 2024 - May 2025
- Optimized agricultural decisions by classifying soil health with **95.3% accuracy** with advanced predictive modeling.
- Designed and integrated IoT sensor systems using Arduino in **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
- Developed a real-time desktop application for student identification and automated attendance, improving classroom efficiency.
- Achieved **75–80%** facial recognition accuracy with **400 image samples per student,** significantly reducing manual errors in attendance tracking.
- Implemented **CSV-based storage** and retrieval for attendance records, enabling efficient logging, easy access, and detailed reporting for administrative decisions.

Dementia Prediction Model | *Python, scikit-learn, XGBoost, Random Forest* | ⭘   Nov 2023 - Dec 2023
- Developed a dementia predictive model using Random Forest, achieving **93% accuracy on 373 observations.**
- Led coding and machine learning implementation, preprocessing **15+ features** and **producing 8 visualizations** (e.g., scatter, heatmap) to analyze dementia patterns.
- Conducted comparative analysis of ensemble models (XGBoost, Gradient Boosting, AdaBoost), identifying XGBoost as the top performer with **96% accuracy, 91.04% F1, and 87.50% recall.**

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 the **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 domain,** tackling critical healthcare challenges.
- Codeforces Rating **1062 & 400+** DSA problems solved across LeetCode, GFG & HackerRank.

EXTRACURRICULAR

- Supervised NTC Club's environmental event, engaging **200+ students** in a themed painting competition.
- Mentored **25+ club members** in advanced videography and editing, producing high-impact videos for AdVITya, engaging **2,000+ attendees** and enhancing the club's production quality.
- Crafted a voice-controlled AI quiz for Google's Actions platform in **Jan 2020,** achieving a **90% user completion rate,** uncovering key insights into voice application engagement, receiving recognition and rewards for the project.