Aadi Jain

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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
Machine Learning & AI: Transformer Models, NLP, CNNs, Deep Learning
Software & Tools: MySQL, Linux, AWS, Postman API, CI/CD, RestAPIs, Git/GitHub

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 while collaborating via Git.
- Built and maintained REST API–based data ingestion pipelines for image and metadata streams, supporting anomaly detection workflows and reliable data processing.

PROJECTS

InsightViz | *Python, Streamlit, LLMs, Pandas, Matplotlib, Plotly* | 🎱 Aug 202 - Nov 2025
- Developed a Generative AI–powered analytics system enabling natural-language querying of CSV datasets with automatic charting and statistical insights.
- Integrated multiple LLMs for query interpretation and code generation, efficiently processing **10,000+ records** and supporting **15+ analysis types.**
- Led secure sandboxed execution (E2B), improving insight generation time by **40% with** automated, reliable reporting.

KrishiAI | *TensorFlow, IoT, React.js* | 🎱 Jun 2024 - May 2025
- Optimized agricultural decisions by classifying soil health with **95.3% accuracy** using 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.

ACHIEVEMENTS

- **Oracle Cloud Infrastructure 2025 Certified Generative AI Professional (2025):** 🔗 Applied generative AI concepts to data-driven workflows, automation use cases, and AI-enabled business solutions
- **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.