AADITYA JAISWAR

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EDUCATION

BTech in (Electronics & Computer Science Engineering) Shah & Anchor Kutchhi Engineering College **(GPA : 8.72/10)**
Bifocal in Electronics (JUNIOR COLLEGE) Jai Hind College

TECHNICAL SKILLS

- **Languages:** Python, TypeScript, JavaScript, Go.
- **Backend:** FastAPI, Node.js, REST APIs, GraphQL, Redis, Kafka, RabbitMQ.
- **AI / ML:** PyTorch, TensorFlow, scikit-learn, Hugging Face Transformers, LLM Fine-tuning (PEFT/LoRA, Unsloth), Quantization, PennyLane (Quantum ML).
- **GenAI & Agents:** LangChain, LangGraph, RAG, MCP (Model Context Protocol), vLLM.
- **Frontend & Mobile:** React, Next.js, React Native, Tailwind CSS, GSAP, Framer Motion, WebGL.
- **Databases:** PostgreSQL, Qdrant, Pinecone, MongoDB, MySQL, Supabase, Firebase.
- **Cloud & DevOps:** AWS (EC2, S3, Lambda), Microsoft Azure (Blob Storage), GCP, Docker, GitHub Actions (CI/CD), Apache Airflow, Prometheus, Linux, Git.
- **Testing & Automation:** pytest, Jest, Playwright.

EXPERIENCE

Periscope Technologies | Software Development Engineer Intern **FEB 2026 - PRESENT**

Vivotal : AI-Powered Health Tech Platform · **Node.js, React, Azure, GCP, Vertex AI, Gemini**

- Built the Node.js/Azure backend (REST APIs for auth, health-data ingestion and care-team workflows) and React Native + smartwatch apps syncing **Apple HealthKit** and **Google Health Connect data.**
- Migrated the **GenAI** layer to production Google Cloud, and redesigned AI health summaries with a JSON-schema LLM response contract.
- Architected **patient–doctor–caregiver** linking with RBAC and secure care-team access.

Stryder : E-commerce Analytics Automation · **Python, FastAPI, Playwright, PostgreSQL, Azure Blob Storage**

- Led Playwright automation across 6 platforms (Blinkit, Zepto, Instamart, BigBasket, Amazon, Flipkart Minutes) feeding FastAPI pipelines that process 1,000+ records/day with sub-100 ms reporting queries.
- Built a self-healing error-recovery module (LLM diagnosis + regex cache + keyword fallback), improving reliability by 35%, and automated TOTP/2FA auth across concurrent pipelines.

Ibtidaa Tech | Artificial Intelligence Intern **July 2025 - Aug 2025**

- **LLM Optimization:** Fine-tuned **LLMs** using Hugging Face **PEFT/LoRA** techniques; enhanced model contextual accuracy by 15% through instruction tuning and advanced Prompt Engineering.
- **Automated ETL:** Architected **ETL pipelines** using **Python** and **Apache Airflow** for large-scale unstructured data preprocessing, reducing evaluation benchmarking time by 25%.

CybraneX | Quantum Machine Learning Intern **OCT 2025 - OCT 2026**

- **Quantum ML:** Built a hybrid quantum–classical pipeline around a 6-qubit **Quantum Autoencoder (QAE)** that detects lithium and vanadium signatures in **198-band NASA Hyperion satellite** imagery. On a held-out test scene it reached the best score of 7 benchmarked methods (0.770 AUC), 2.1% higher than the PCA baseline.
- **Full-Stack Geospatial Product:** Built a live Sentinel-2 analysis engine (Python) that turns any latitude/longitude into mineral prospectivity maps, and a Next.js dashboard to view them. Checked the results against known USGS

PROJECTS

FeedingHands | Food Donation & Redistribution Platform Live URL Github URL
Go, Next.js, React, PostgreSQL, Razorpay, Leaflet, OSRM, TensorFlow.js, Docker

- Built a platform that cuts food waste by connecting donors with surplus food to NGOs, with volunteers handling pickup and delivery. Food that can no longer be eaten goes to biogas partners instead of landfill.
- Tracked every donation from posted → claimed → picked up → delivered with a public tracking ID. Volunteers see nearby pickups on a map with optimized routes (Leaflet + OSRM), and an in-browser TensorFlow.js model checks food freshness from a photo.

Provenyx Security | Explainable npm Supply-Chain Security Live URL Github URL Extension URL
TypeScript, VS Code API, FastAPI, Next.js, NetworkX, Solidity

- Built a supply-chain security platform analyzing package-lock.json without executing package code, identifying vulnerabilities and suspicious dependency changes.
- Developed explainable dependency analysis with OSV/npm metadata, a security dashboard, and a Solidity-based on-chain release verification system.

Black Box | Flight Recorder for AI Agents Live URL Github URL
Python, FastAPI, LightGBM, SHAP, Neon Postgres, React, TypeScript

- Built a debugging platform that records every step of an AI agent's run and finds the step that caused a wrong answer, then proves it by replaying the run with that step changed and checking that the outcome flips.
- Trained a LightGBM LambdaRank model on replay-verified failure labels to rank likely culprit steps, with SHAP explanations, an auto- repair system that replays only the steps a fix affects, and a React dashboard for trace graphs and run comparison.

TerraQ | Quantum Mineral Prospecting from Satellite Imagery Live URL Github URL
Python, PennyLane, scikit-learn, Sentinel-2 / EO-1 Hyperion, Next.js, TypeScript

- Built a hybrid quantum-classical pipeline that detects lithium and vanadium deposits in hyperspectral satellite imagery. A 6-qubit quantum autoencoder compresses PCA-reduced spectra into features for an RF + gradient boosting + SVM ensemble.

ACHIEVEMENTS

1st Place Winner, Hackathon (Periscope Technologies) - won **₹1 Lakh** cash prize for **ArogyaSense.** **Periscope Technologies**
2nd Runner-Up – National-level DEEP BLUE Hackathon won **₹50,000** Cash Prize for **FeedingHands .** **MASTEK -MAJESCO SEASON 10**
Secured a **Top 5 Finalist** position at the **MCA-RGIT** **RGIT**
Secured a **Top 20 Finalist** position at the **Somaiya Riidl Hackathon.** **Riidl Hackathon**
Secure a **Finalist** Position in **ODOOXSPIT HACKATHON** **ODOO**