



Jaineel Vora

Bachelor of Technology
Artificial Intelligence and Data Science
Indian Institute of Technology, Jodhpur

+91-9820746161
jaineelvora08@gmail.com
[GitHub](#)
[LinkedIn](#)
[LeetCode](#)

EDUCATION

Degree	Institute	CGPA/Percentage	Year
B.Tech (AI & DS)	Indian Institute of Technology, Jodhpur	8.72	2024 – Present
Senior Secondary	Smt. Shanti Devi Shukla Junior College of Science (HSC)	90.50%	2024
Secondary	Kapol Vidyanidhi International School (ICSE)	98.40%	2022

EXPERIENCE

- **Undergraduate Researcher** | Guide: Prof. Angshuman Paul, IIT Jodhpur (May 2026 – Present)
– Training a diagnostic **Vision-Language Model (VLM)** on a custom **multimodal dataset** aligning medical imaging with noisy, **multilingual Indic** layperson dialogue to mitigate omniscient patient data leakage and **linguistic biases**.
- **Project Member – Inter IIT Tech Meet 14.0 (1st Place)** | Arista Networks Problem Statement (Oct 2025 – Dec 2025)
– Co-designed a client-centric Wi-Fi RRM system, utilizing **graph-based optimizations** and **safe reinforcement learning** across 3 control loops to ensure a **98.7% safety compliance rate** and a **4.4h adaptation cycle**.
– Built an **explainability chatbot** and **CNN interference classifier** with **97% accuracy** and **<14ms latency**.
– Benchmarked against baselines on 3 heterogeneous dense multi-AP pilot sites via **NS-3** and **MATLAB** simulations, validating **+28% edge throughput**, **-40% P95 latency**, **+16.3% RU utilization**, and a **30% reduction** in hidden-node collisions.

PROJECTS

- **BEACON – AI-Driven Mentorship Platform** | Insomniac Hackathon - Devlup Labs (Mar 2026 – Apr 2026)
Tech Stack: Python, Django, React, PostgreSQL, Neo4j, Redis, Celery, Pinecone, Gemini, WebSockets **GitHub**
– Deployed a full-stack AI platform with Google OAuth/JWT and **real-time WebSockets** sustaining **200+ concurrent connections**, and **Neo4j-based** mentor discovery achieving a **92%+ match acceptance rate** via **trust rankings**.
– Implemented an **async RAG pipeline** using **Celery**, **Pinecone**, and **Gemini**, achieving **95% Top-3 retrieval accuracy** while using **query compaction** to reduce recommendation latency by **~65%** and LLM calls by **60%**.
- **GraphAnalyse - Social Graph Engine** | DSA Coursework Project (Oct 2025 – Nov 2025)
Tech Stack: C++, React.js, Graph Algorithms, Raw Sockets, HyperLogLog, PageRank **GitHub** | **Deployed Link**
– Engineered a scalable, **concurrent in-memory graph engine**, sustaining **<1ms** latency for **100K+ nodes** using **Bipartite PageRank**, **Jaccard** similarity, and **Min-Heaps** for **Top-K** trends under a **43MB footprint**.
– Reduced average **memory footprint** by **92%** via **HyperLogLog** and **Inverted Indices**.
– Accelerated search and clustering with **2M queries/sec** autocomplete throughput via **Tries** and **163M ops/sec** via **DSU**.
- **libr - Decentralized Public Forum** | Summer of Code - Devlup Labs (Jun 2025 – Oct 2025)
Tech Stack: Go, libp2p, P2P Networks **GitHub** | **Landing Page**
– Devised a **custom peer-to-peer protocol** via **Kademlia DHT (XOR routing)** to enhance system scalability, maintaining a **lightweight <50MB memory footprint** and **<100ms discovery latency**.
– Integrated **adaptive relay fallbacks** achieving **95%+ NAT-traversal success** under high network churn for fault-tolerant peer connectivity.
– Launched a **beta release**, onboarding **250+ users** and generating **1,000+ posts** across multiple operating systems.
- **NL to MongoDB** | Winter Project - AI Club (**Industry Collaboration: MetaFusion**) (Jan 2025 – Apr 2025)
Tech Stack: Fine-Tuning, NLP, QLoRA, DPO, PPO, Prompt Caching, llama.cpp **GitHub** | **Hugging Face**
– Curated a structured dataset of **1,000 complex query pairs** across **10 multi-collection schemas** and **5 difficulty levels** by reverse-generating natural language from target queries using **GPT-4o Mini** and an automated validation agent.
– Built an **NL-to-MongoDB engine** by fine-tuning a **language model** to **94% accuracy** via **4-bit QLoRA (Unsloth+TRL)** and post-training preference alignment (**DPO/PPO**) with a custom semantic reward function.
– Optimized local deployment on a constrained **16GB CPU** using **llama.cpp** and implemented a **prompt caching mechanism**, reducing inference latency to **<500 ms**.

ACHIEVEMENTS & LEADERSHIP

- Won **1st Place (Gold Medalist)** in **Inter IIT Tech Meet 14.0** (Arista Networks Problem Statement) among 23 IITs.
- Achieved **2nd Place** in **Kaggle OTAKU AI DŌJŌ**, fine-tuning **Vision Transformers (ViT)** on **93K+ images** and filtering out-of-domain outliers to handle domain shifts across 630 classes and 6 unseen styles.
- Secured **3rd Place** at the **Insomniac 24-Hour Hackathon** for engineering **BEACON**, an AI mentorship platform utilizing **async RAG pipelines**, **Pinecone**, and **2-hop Neo4j graph traversal**.
- **Core Member** at Devlup Labs, IIT Jodhpur.

TECHNICAL SKILLS

- **Programming Languages:** Python, C/C++, Go, JavaScript.
- **Backend, Databases & Tools:** Django REST APIs, FastAPI, PostgreSQL, Neo4j, Pinecone, Docker, Git/GitHub.
- **Distributed Systems & Networking:** libp2p, Kademlia DHT, WebSockets, NAT traversal, Relay-based P2P.
- **Machine Learning & AI:** PyTorch, NumPy/Pandas, LLM fine-tuning (QLoRA, DPO, PPO), VLM.

RELEVANT COURSEWORK

Data Structures & Algorithms, Principles of Computer Systems I & II (Operating Systems, Computer Networks, Computer Architecture), Pattern Recognition & Machine Learning, Probability & Statistics, Linear Algebra, Introduction to Computer Science.