

MOHAMMAD IZAAN

Computer Science Student | HPC | AI/ML | Cloud Computing | GPU Computing

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PROFILE SUMMARY

Computer Science student with interests in High Performance Computing, Artificial Intelligence, Distributed Systems, Cloud Computing, and GPU-accelerated computing. Experienced in machine learning, parallel computing, and AI-driven research through internships, publications, and technical projects along with interest in software design and highly focused on performance and optimization. Passionate about building scalable intelligent systems and leveraging modern computing architectures to solve computationally intensive real-world challenges.

EDUCATION

SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, KATTANKULATHUR

Bachelor of Technology (Hons. GPU Accelerated Computing) Computer Science and Engineering
CGPA: **9.24/10** | Duration: **2024 - 2028**

EXPERIENCE

Project Intern, IIT Delhi HPC Lab | Dec 2025 – Jan 2026

- Developed a tree-based machine learning pipeline for supercomputer queue wait-time prediction using 150,000+ scheduler job logs with 93% accuracy.

Research Intern, IIT Bhilai MIST Lab | June 2026 – July 2026

- Working on a Child Face Prediction System with sequential age and race demographics using StyleGAN.

797th LLC | July 2026 – August 2026

- Worked on General Software development over agentic people discovery platform using SearXNG.

Amazon ML Summer School | July 2026 – August 2026

- Got selected into Amazon MLSS and attended exclusive sessions on Machine Learning.

PUBLICATIONS

- Application of Quantum Technologies for Metro System Efficiency, Enhancement and Optimization (IEEE ICEAMST 2025)
- AI-Driven Guardrails for Autonomy: Federated Learning with Quantum Search to Enhance Passenger Safety (IEEE ICEAMST 2025)
- Q-SHIELD: A Quantum Safety-Aware Heuristic for Intelligent Evasive Lane Decision-Making in Autonomous Vehicles (IEEE ICEAMST 2025)

SKILLS

Programming: Python, C++, Java, C, Data Structures and algorithms, Rust

AI/ML: PyTorch, Scikit-Learn, OpenCV, YOLO, Deep Learning, Machine Learning, Computer Vision, Neural Networks, GANs

HPC & Parallel Computing: CUDA, OpenMP, MPI, PBS Scheduler, GPU Programming, HPC Architecture, Parallel Algorithms, Distributed Systems, Performance Optimization, Accelerated Computing, Concurrency, Multi-threading

Cloud & Systems: Linux, Docker, Cloud Computing, Server Management, Computer Networks, Shell Scripting, REST, gRPC

Databases: PostgreSQL, MySQL, MongoDB, SQLite

Areas of Interest: High Performance Computing, AI Acceleration, GPU Computing, Machine Learning, Deep Learning

PROJECTS

GNN + Transformer Based Genome Decoding via HPC Systems | Jan 2026 – Present

- Hybrid Transformer-GNN optimised framework for genomic analysis on GPU systems using PyTorch and related Python libraries like biopython.

RagaSense: Real-Time Detection of Indian Ragas using Deep Learning | July 2026 – Present

- Implementation of the deepsrnm model along with implementation of realtime tracking and analysis of live audio recordings.

Aegis Scheduler: Agent and Workload Aware scheduler for HPC and Kenels | June 2026 – Present

- Full scale HPC scheduler for automatic SLURM jobs and real time situationally aware scheduling in Rust.

Coding Tracker

- Full-stack platform for GitHub, LeetCode, and Codeforces analytics built with Node.js, TypeScript, PostgreSQL, and Supabase.

AWARDS & ACHIEVEMENTS

- Chancellor's Award for Excellence in Undergraduate Research (2026)
- Research Day Silver Medal, CTECH (2026)
- 1st Prize, Hypercompute HPC Hackathon (2026)
- Best Student Award, CTECH (2026)

CERTIFICATIONS

NPTEL: Applied Accelerated Artificial Intelligence (2025), Practical High-Performance Computing

NVIDIA: Fundamentals of Accelerated Computing with CUDA Python