

ATHARVA SHUKLA

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[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

PROFESSIONAL SUMMARY

Enthusiastic and self-motivated B.Tech Computer Science (AI/ML) student at VIT Chennai with a strong foundation in machine learning, deep learning, and full-stack development. Experienced in building AI-powered applications, optimizing models for research and real-world performance, and contributing to academic projects involving explainable AI and quantum computing. Skilled in applying modern development practices and actively seeking opportunities to contribute to cutting-edge tech environments.

EDUCATION

Vellore Institute of Technology (VIT), Chennai

B.Tech in Computer Science and Engineering (AI/ML)

Aug 2023 – July 2027 (Expected)

CGPA: 8.47/10

DAV Public School, Navi Mumbai

CBSE – Senior Secondary

Jun 2021 – May 2023

Percentage: 90.2%

TECHNICAL SKILLS

Languages: Python, C++, Java, JavaScript, SQL

Frameworks & Libraries: PyTorch, TensorFlow, scikit-learn, Hugging Face, OpenCV, Keras

Tools & Technologies: Git, GitHub, Google Colab, Jupyter, Firebase, FFmpeg

Web Development: HTML, CSS, JavaScript, React.js, Node.js, Express.js

Database Systems: MongoDB, MySQL

Cloud & DevOps: AWS EC2/S3, Azure, Git Workflow, CI/CD (Beginner)

Others: Transformers, LoRA/QLoRA (ongoing), Socket.io, REST APIs

PROJECT EXPERIENCE

Portfolio Website

Jan 2025 – Apr 2025

- Developed and deployed a personal portfolio with dynamic theme toggling and contact form integration.
- Tools: HTML, CSS, JavaScript
- GitHub: github.com/atharvashukla13/portfolio

Multi-Cancer Detection Using Explainable Quantum Neural Networks

Feb 2025 – Present

- Designing a QNN pipeline with Explainable AI features for image-based cancer classification.
- Tools: Qiskit, TensorFlow Quantum, Google Colab

Autonomous Polymetallic Nodule Detection

Dec 2024 – Present

- Applied image enhancement and YOLOv8 detection for marine robotics vision systems.
- Improved accuracy under low-light and murky conditions.

Video Streaming Platform (MP4 to HLS Conversion)

Aug 2024 – Nov 2024

- Built a Node.js pipeline using FFmpeg and Video.js to stream segmented HLS videos.
- Enabled adaptive streaming with real-time load handling.

Software Developer – Full Stack Intern (VIT Chennai)

Jul 2024 – Dec 2024

- Built full-stack web apps with dashboards, chat features, and backend API optimization.
 - Stack: React.js, Node.js, Express.js, MongoDB, Socket.io
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RESEARCH EXPERIENCE

Quantum Neural Networks for Medical Diagnosis

VIT Research Initiative – Feb 2025 to Present

- Integrated explainability with QNN architectures for real-time cancer classification.
 - Focused on edge compatibility, interpretability, and future publication.
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INTERNSHIP EXPERIENCE

VIT Connect – Content & Outreach Intern

Oct 2024 – Feb 2025

- Produced student testimonial campaigns and structured VIT's outreach content.
 - Improved engagement and visibility across campus platforms.
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STRENGTHS

- Strong in applied AI/ML and GenAI modeling
- Practical exposure to Hugging Face, model tuning, and cloud workflows
- Fast learner with a research-driven mindset
- Experienced in both individual and collaborative project environments