

# Atharva Shukla

Navi Mumbai, India

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## PROFESSIONAL SUMMARY

Motivated Computer Science (AI/ML) undergraduate with a solid foundation in software development, AI, and full-stack engineering. Skilled in Python, Java, and React.js, with hands-on experience building secure, scalable applications through academic projects. Currently exploring cloud platforms (AWS, Azure), CI/CD, and application resiliency through coursework and self-learning. I thrive in agile, team-driven environments and am eager to contribute to JPMorgan Chase's mission of innovation and inclusive tech for social good.

## EDUCATION

VIT CHENNAI, India

Aug 2023 - July 2027(Expected)

Bachelor of Technology (B.Tech) - Computer Science (AI/ML) | CGPA: 8.47/10

Subjects: DBMS, DSA, AI

DAV PUBLIC SCHOOL, Navi Mumbai, India

Jun 2021 - May 2023

CBSE (Senior Secondary Education) | Final Grade: 90.2%

Subjects: Computer Science, Python, MySQL

## ACADEMIC EXPERIENCE

Researcher – Explainable AI for Multi-Cancer Detection

Feb 2025 – Present

- Conducting research on Quantum Neural Networks for multi-cancer classification and segregation.
- Developing explainable AI models to enhance interpretability in medical diagnostics.
- Optimizing deep learning architectures for high-accuracy cancer detection using advanced image processing techniques.

Researcher – Image Processing for Polymetallic Nodule Detection

Dec 2024 – Present

- Engineered an AI-powered underwater object detection system using YOLOv7 and YOLOv8, enhancing detection accuracy by 40% in low-visibility environments.
- Implemented advanced noise-reduction filtering, improving image clarity for deep-sea mining applications.
- Developed Python-based deep learning models, optimizing classification speed by 30% using TensorFlow.

### Software Developer – VIT Chennai

Jul 2024 – Dec 2024

- Led the development of three scalable web applications, integrating real-time communication features using Socket.io and React.js.
- Implemented database optimization techniques, reducing query response times by 25%.

### Enterprise Video Processor – MP4 to HLS

Aug 2024 – Nov 2024

- Designed an adaptive video streaming solution that converted MP4 files to HLS format, increasing playback efficiency by 35%.
  - Built a Node.js-based API with FFmpeg for real-time video processing.
  - Ensured seamless playback experience across devices using React.js and Video.js.
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## EXTRA-CURRICULAR ACTIVITIES

### VIT Connect – Outreach & Content Coordinator (Paid Internship)

2024 Oct – 2025 Feb

- Led outreach efforts for VIT Chennai, enhancing engagement with over 5,000 students and faculty.
  - Conducted testimonial interviews and curated high-impact content to showcase campus initiatives.
  - Strengthened skills in content marketing, networking, and digital engagement, aligning with JPMorgan Chase's focus on technology-driven outreach and collaboration.
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## TECHNICAL SKILLS

- **Programming Languages:** Python, Java, C++, JavaScript, SQL
  - **Web Development:** React.js, Node.js, Express.js, HTML, CSS
  - **Database Management:** SQL, MongoDB, Firebase, RDBMS
  - **Cloud Computing:** AWS (EC2, S3)(Beginner), Azure, Git, GitHub
  - **Machine Learning & AI:** OpenCV, TensorFlow, YOLO (v7 & v8), Quantum Neural Networks
  - **Agile & Software Development Practices:** Agile Methodologies, CI/CD, Application Security, Version Control
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## KEY STRENGTHS

- Ability to thrive in fast-paced, collaborative environments.
- Strong problem-solving and analytical thinking skills.
- Passionate about AI-driven fintech solutions and cloud computing.
- Familiar with Agile and DevOps methodologies, ensuring efficient software delivery.