Atharva Pradip Rahate
AI | Python | React.js

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Frontend Developer and Full Stack JavaScript Engineer with demonstrated expertise in React.js ecosystem and modern web application development. Specialized in Next.js framework, Three.js 3D graphics, and scalable component architectures. Proven track record of delivering performance-optimized applications with 35-42% efficiency improvements. Proficient in Git-based collaborative development, ES6+ JavaScript patterns, and agile development methodologies.

EDUCATION

Bachelor of Engineering in Computer Engineering   *Nashik | 2022 - 2026*
Pune Vidhyarthi Griha's College of Engineering, Nashik
Ranked among the top 5% of the cohort with 8.71 SGPA.

WORK EXPERIENCE

Celebal Technologies   *Nashik, India*
Data Science Intern   *May 2025 - Jul 2025*
- Built a RAG pipeline with LangChain, boosting Q&A accuracy by **28%** and reducing latency by **35%**.
- Fine-tuned LLMs and optimized FAISS vector search, cutting response time by **42%**.

Tactique   *Nashik, India*
AI, ML and React Developer   *Feb 2025 - May 2025*
- **Architected** a gesture driven **Minecraft interface** utilizing **OpenCV and Mediapipe,** enabled keyboard-free gameplay.
- **Engineered** "Tattvadip" an **NLP powered AI system** that extracts philosophical insights with **75% improvement**.
- Automated internal **email workflows** in Python, increasing communication by 50% using SMTP and custom logic.

Talent Battle Pvt Ltd   *Nashik, India*
DSA and Aptitude Trainee   *Dec 2024 - Feb 2025*
- **Completed 10+ advanced DSA modules**, enhancing problem-solving proficiency.
- Achieved **95% accuracy** in simulated coding tests and aptitude assessments.
- Simulated real-world coding interviews in **Agile Scrum-based** test environments.

Internship Studio   *Nashik, India*
Machine Learning Intern   *Sep 2024 - Nov 2024*
- Trained a CNN model for YouTube content classification, improving **detection accuracy by 21%.**
- Engineered an image analysis pipeline using **OpenCV** and 3**Python**, increasing batch processing efficiency by **30%**.
- Applied object detection to real world videos, improving data extraction **efficiency by 30%**.

SKILLS

- **Frontend Development:** JavaScript ES6+, React.js Hooks & Context, Next.js Framework, TypeScript
- **3D Graphics & Animation:** Three.js WebGL Rendering, 3D Scene Management, Shader Programming
- **Modern Web Stack:** HTML5 Semantic Elements, CSS3 Grid/Flexbox, Sass/SCSS, Tailwind CSS
- **State Management:** Redux Toolkit, Context API, React Query, SWR Data Fetching
- **Development Workflow:** Git Version Control, NPM/Yarn Package Management, Webpack Bundling
- **API Integration:** RESTful Services, GraphQL Queries, Axios HTTP Client, WebSocket Connections
- **Testing Frameworks:** Jest Unit Testing, React Testing Library, Cypress E2E Testing

PROJECTS

Tattvadip – NLP Insight Engine | Python, LangChain, GCP, CI/CD   *Jun 2025 - Present*
- Introduced *Tattvadip*, an NLP-based tool extracting insights from ancient texts, improving content clarity by **75%**.
- **Used semantic analysis** and deployed via cloud (GCP) using CI/CD pipelines and Git integration.

VenomLearn A python Library that teaches python (https://pypi.org/project/VenomLearn/)   *Apr 2025 - Jun 2025*
- Designed and embedded compiler to teach coding fundamentals, achieving over **85% task completion** in user testing.
- Launched *VenomLearn*, a Python library with an integrated compiler to teach coding fundamentals interactively.

Intervee AI-Powered Interview Simulator (https://intervee.vercel.app/)   *Feb 2025 - Mar 2025*
- Orchestrated an AI-driven simulator leveraging NLP and voice analysis to deliver real-time interview feedback.
- Designed scalable **back-end APIs** and integrated Git-based workflow for modular team contributions.

Stega Shield: Secure Data Embedding (https://staga-sheild.vercel.app/)   *Nov 2024 - Dec 2024*
- Devised a cryptographic embedding framework combining steganography with AES for secure data transmission.
- Enabled secure transmission of sensitive data with a **100% decode** success rate in testing.

HONORS

- **Academic Topper, Rank 1** in 2 Semesters | Ranked in **Top 5%** with 8.71 SGPA.
- Finalist in 7+ Hackathons (NASA Space Apps, ISRO, Avishkar)
- Filed research paper on **AI-Driven Generative Architectural Design**.