Piyush Patil

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Education

VES Institute of Technology

Mumbai, India

Bachelor of Technology in Artificial Intelligence and Data Science

Nov. 2022 - Mar. 2026

- CGPA: 8.55/10
- Relevant Coursework: Artificial Intelligence, Machine Learning, Data Structures and Algorithms, Database Management Systems, Web Development, Computer Vision, Cloud Computing, Deep Learning

Experience

Frontend Developer Intern

June 2025 – Present

IDMS Infotech

Mumbai, India

 Architected Company Registration Form with React.js featuring tabbed interface and validation, reducing data entry time by 40%

• Engineered Minutes of Meeting application with real-time audio streaming and transcription, processing 100+ hours of audio data

Project Development Intern

Jan. 2025 – Present

Panache Digilife

Mumbai, India

- Deployed ESP32-based IoT air quality monitoring system tracking 9 environmental metrics from 2 sensors with 99.2% uptime
- Accelerated Firebase database performance through strategic indexing, reducing query response time by 15% for 50+ concurrent users

Projects

Research Collaboration Hub | React.js, Quill.js, WebSocket, Node.js, MongoDB, Clerk Auth

Mar. 2025

- Constructed real-time collaborative text editor using Quill.js and WebSocket technology, supporting 15+ simultaneous users
- Implemented operational transformation algorithms for conflict-free document synchronization, eliminating editing conflicts by 100%
- Configured secure authentication system using Clerk OAuth with role-based permissions, managing 30+ researcher accounts

Women's Safety Application | React.js, Leaflet.js, Node.js, Express.js, MongoDB

Jan. 2025

- Crafted location-based safety application for Syrus Hackathon, securing judge recognition among 50+ competing teams
- Assembled responsive user interface with React.js using mobile-first design principles, achieving 100% compatibility across 12+ devices
- Integrated geolocation APIs with Leaflet.js for real-time location tracking, decreasing emergency response time by 30%

Deepfake Detection System | Python, OpenCV, Keras, TensorFlow, React.js, Flask

Jan. 2025

- Analyzed 800+ video frames from FaceForensics++ dataset using OpenCV preprocessing techniques, extracting 50+ facial features per frame
- Delivered end-to-end web application with React.js frontend and Flask REST API backend, processing 100+ video uploads during testing
- Optimized CNN-LSTM neural network using TensorFlow framework, achieving 85% detection accuracy with 92% precision rate

Technical Skills

Programming Languages: Python, JavaScript, Java, TypeScript, C, HTML5, CSS3, SQL

Frameworks & Libraries: React.js, Flask, Node.js, Express.js, TensorFlow, scikit-learn, OpenCV, Pandas, NumPy, Quill.js

Databases & Cloud Technologies: MongoDB, Firebase, MySQL, Amazon Web Services (AWS)

Development Tools: Git, GitHub, Visual Studio Code, WebSocket, REST APIs, Socket.IO

Achievements

1st Place - Awakening the Scientist 2023: First place winner for air purifier enhancement project demonstrating measurable environmental impact

1st Place - Deep Reads 2025: Winner of technical presentation competition showcasing PEGASUS model for automated text summarization

Top 5 Finalist - Hack-AI-Thon 2025: Developed AI-powered ERP system with Retrieval-Augmented Generation for intelligent data retrieval