

Vedant Deshmukh

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EDUCATION

Sardar Patel Institute of Technology

Bachelor of Technology in Computer Engineering — CGPA: 9.01/10

Mumbai, India

Jun 2021 – Jun 2025

EXPERIENCE

Software Engineer (AI Automation)

Growth Infi

Mar 2026 – Present

Mumbai, India

- Developed an automated Next.js/TypeScript tool to resolve company names to official domains, streamlining internal lead prospecting workflows.
- Built a high-accuracy email verification pipeline by integrating multiple engines, significantly improving data reliability for catch-all and invalid domains.
- Architected a persistent Node.js and Supabase backend for bulk CSV processing (10000+ rows), ensuring data integrity during server restarts.

AI Intern

DeepCytes CyberLabs (UK)

Jun 2024 – Dec 2024

Mumbai, India

- Developed deepfake detection systems using CNN-LSTM pipelines for audio and video, achieving 92% accuracy.
- Built a real-time inference and evaluation pipeline with end-to-end latency under 500ms.
- Optimized model inference and preprocessing pipelines, reducing latency by 30%.

Full-Stack Developer Intern

IIT Bombay

Jan 2024 – Jul 2024

Mumbai, India

- Designed and deployed a full-stack web platform (PHP, MySQL, JavaScript) for Indian language typing experiments, supporting 1000+ user sessions and concurrent study workflows.
- Developed dynamic admin dashboards to configure experiments, manage users, and control 10+ concurrent language studies in real time.
- Implemented automated data pipelines for computing typing metrics (WPM, CER, TER) and exporting structured datasets, reducing manual effort by 80%.

PROJECTS

FynVid - Scalable Video Streaming App | *MongoDB, Express.js, Kafka, React, Docker, NGINX* (Live) (GitHub)

- Engineered a scalable distributed video platform supporting concurrent users with features like upload, feed generation, and playlist management.
- Designed and implemented an event-driven, multi-instance backend architecture using Kafka for asynchronous processing of views, likes, and comments, enabling decoupled services and real-time notifications.
- Implemented JWT-based authentication using cookies and role-based authorization, and deployed multiple backend instances behind NGINX load balancing with Redis-backed distributed rate limiting.
- Optimized backend APIs using cursor-based pagination and database indexing, and integrated Cloudinary for efficient media storage and delivery, reducing response times by 40%.

IRS-Aided Jamming Detection Framework | *ns-3, C++, Machine Learning* (GitHub)

- Extended an ns-3 mmWave simulator with custom propagation models to support IRS-assisted communication for UAV base stations and mobile jammers.
- Developed data pipelines to extract SINR/RSSI time-series, training a CNN-LSTM model to detect jamming attacks with 87.26% accuracy.
- Implemented signal rerouting using Rician fading and path loss models to maintain link reliability under active interference.

SKILLS

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

Frameworks: Node.js, Next.js, Express, React, Flask, FastAPI

Databases: MongoDB, MySQL, PostgreSQL, Redis

Concepts: REST APIs, Microservices, Authentication, Authorization, Scalability, Rate Limiting, Unit Testing

DevOps/Cloud: Docker, Kubernetes, AWS (EC2, S3), CI/CD, Git, Postman

Machine Learning: PyTorch, TensorFlow, Scikit-learn, NumPy, Pandas, Matplotlib