

Parth Srivastava

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Education

Nirma University, Ahmedabad

B.Tech in Computer Science and Engineering (Minor in Adaptive AI)

2023 – 2027

CGPA: 8.64 / 10

Experience

Accenture Solutions Pvt. Ltd.

May 2026 – July 2026

Software Engineering Intern

- Engineered the foundational backend for an AI-assisted Pull Request review system, building an event-driven data pipeline to ingest webhooks, compute exact-SHA Git diffs, and extract structured code context.
- Designed an enterprise-grade architecture integrating **Python AST parsing**, heuristics engines, and contextual knowledge retrieval to generate reproducible, deterministic baseline reviews prior to LLM handoff.
- Ensured high reliability and security by implementing HMAC-SHA256 payload verification, delivery idempotency checks, and asynchronous processing using **FastAPI**, **Celery**, and **Redis**.

Projects

Sahay — Employee Intelligence Platform 🗡 🗣

MERN + LLMs

- Architected an AI-driven HR platform integrating **4 data sources** (Slack, Google Calendar, BambooHR, Fireflies) to centralize fragmented employee data, reducing manual HR query resolution time significantly.
- Engineered a **RAG-based assistant (Groq and LLaMA 3.2)** with vector retrieval to allow HR teams to query employee data and generate context-aware insights.
- Developed risk and sentiment scoring pipelines from communication data to detect issues early and support proactive HR decision-making.
- Architected an event-driven infrastructure on **AWS (Lambda, SQS, API Gateway)** and **Vercel**, leveraging message queues for asynchronous LLM pipelines and implementing a caching layer to reduce dashboard load times.

MargDarshak — Traffic Operations & Incident Co-Pilot 🗡 🗣

React + FastAPI + Groq LLM

- Developed a **React + FastAPI** urban traffic command center platform featuring **25 REST APIs** for live traffic playback, incident tracking, and multi-channel operator workflows.
- Implemented **real-time congestion-aware routing** using OSMnx road graphs and BPR travel-time modeling, driven by a background daemon loop for continuous timestamped traffic telemetry simulation.
- Integrated **Groq LLM and Whisper Large v3 Turbo** to provide conversational incident Q&A, automated signal retiming, multi-channel alert publishing (Twitter/X, VMS), and voice-triggered reporting.
- Deployed the frontend on **Vercel** and containerized the FastAPI backend for deployment on **Render/AWS**, establishing a **CI/CD** pipeline to streamline continuous updates.

Impact — Voice Deepfake Detector (6th in Student Category) 🗣

PyTorch + WavLM + FastAPI

- Led the **FastAPI inference pipeline** with GPU optimization for near real-time multilingual deepfake detection across diverse and noisy audio inputs.
- Designed a **WavLM-based ensemble architecture** with dual classification heads for robust and generalizable detection performance.
- Achieved **94% accuracy** on a multilingual dataset spanning 5 Indian languages, validating generalization across varied generators (ElevenLabs, Bark, Edge TTS).

Technical Skills

- Languages:** JavaScript, Python, C++, Java, SQL
- Frontend:** React, Tailwind CSS, ShadCN UI
- Backend:** Node.js, Express.js, FastAPI, REST APIs, JWT Authentication
- Databases & Caching:** PostgreSQL, MongoDB, MySQL, Redis
- AI/ML:** PyTorch, Transformers, NLP, WavLM, LangChain, LangGraph
- Tools & Platforms:** Git, GitHub, Docker, Postman, Vercel, Render, AWS

Relevant Coursework

Data Structures & Algorithms

Database Management Systems

Operating Systems

Object-Oriented Programming

Artificial Intelligence

Computer Networks

Achievements

- 1st Runner Up** — Breach Hackathon 2026 (PDEU) — Gujarat's largest FinTech Hackathon ([Certificate](#))
- 1st Runner Up** — Aetrix 2026 (Smart Transportation Track) ([Certificate](#))
- Top 5 (Petpooja Track)** — HACKaMINeD 2026, Nirma University
- 6th Rank (Student Category)** — HCL GUVI Buildathon, **India AI Impact Summit**; ranked among **38,000+** participants ([Certificate](#))
- Solved 500+ DSA Problems** across multiple coding platforms.