URVIL PATEL

Aspiring AI/ML Engineer | Agentic AI & Full-Stack Development

+91-9016056853 | uvpatel7271@gmail.com | LinkedIn | X | github | Leetcode

SUMMARY

Third-year Computer Engineering student with hands-on experience building AI agents, LLM-powered tools, and reinforcement learning environments, alongside full-stack development using Next.js and FastAPI. Proven track record across national hackathons (Odoo, Hack2Skill, Meta x PyTorch x Hugging Face x Scaler), with growing expertise in agentic AI frameworks, MCP servers, retrieval-augmented generation, and vector databases. Comfortable leading teams, shipping production-style prototypes, and deploying full-stack AI applications end to end.

EDUCATION

Birla Vishvakarma Mahavidyalaya (BVM) — B.Tech, Computer Engineering *Aug 2024 – Jun 2028*
CPI: 7.05 | V.V. Nagar, Gujarat

B. M. Patel, Dhrol (GHSEB) — Class XII *2023 – 2024*
Percentage: 93.33% | Dhrol, Gujarat

Gyan Ganga Vidhyamandir, Jam Khambhaliya (GSEB) — Class X *2021 – 2022*
Percentage: 91.16% | Jam Khambhaliya, Gujarat

TECHNICAL SKILLS

Languages: Python (Primary), JavaScript, TypeScript

AI/ML & Agentic Tools: Google Agent Development Kit (ADK), Model Context Protocol (MCP), OpenAI SDK, Gemini API, Groq API, Phidata, Reinforcement Learning (OpenEnv), Pydantic

Web Development: React.js, Next.js, FastAPI, Node.js, Aceternity UI, Shadcn UI

Databases & Infrastructure: MongoDB Atlas, Qdrant (Vector DB), Neon DB, Drizzle ORM, Docker, Mongoose ODM

Core CS: Data Structures & Algorithms, OOPs, DBMS, Software Engineering

PROFESSIONAL EXPERIENCE

APAC GenAI Academy — AI Agent Development Track *2026*
- Built AI agents using the Google Agent Development Kit (ADK), implementing two distinct agent-development approaches integrated with MCP servers.
- Performed custom dataset analysis and built a conversational chat interface to surface actionable insights from data.

Meta x PyTorch x Hugging Face x Scaler Hackathon — Participant *2026*
- Built a reinforcement learning environment in Python using OpenEnv, modeling actions and observations with Pydantic.
- Built a REST API server with FastAPI, containerized the environment with Docker, and deployed it on Hugging Face.

Odoo Hackathon — Team Lead & Full Stack Developer *Jan – Feb 2026*
- Led a team through the virtual round to the final round of a national hackathon.
- Collaborated with the team to streamline manual approval workflows and deliver solutions under tight time constraints.

Hack2Skill x Block Accelerate — Team Lead & Full Stack Developer *Jan 2026*
- Led a team through the virtual round to the final round of a national hackathon.
- Built a Next.js application integrating the Vapi API to enable real-time speech recognition.

Kaggle Competition — Participant *2026*
- Researched model calibration, prioritizing consistent predicted probabilities across multiple models over optimizing solely for accuracy.

Microsoft Learning Student Ambassador — Tech Head *2025*
- Built a web application implementing load balancing to reliably manage concurrent student registrations.

Tic Tac Toe — Software Development Engineering Intern*May 2024 – Jul 2024*

- Developed an Employee Management System with full CRUD functionality (create, view, update, delete) using Node.js.

PROJECTS

AI-Powered CLI *Jan – Feb 2026*
- Built a coding-assistant CLI inspired by Claude Code, using the Gemini API and OpenAI SDK with a Python backend and OS-level tooling.

Dayflow — HRMS Platform *Jan 2026*
- Built a full-stack HRMS managing payroll, attendance, leave, and employee profiles using Next.js and Drizzle ORM, hosted on Neon DB.

Shiv Furniture — Budget Accounting System *Feb 2026*
- Designed and developed a budget accounting system for Shiv Furniture as part of the Odoo Hackathon.

Career Conquer — AI Career Guidance Platform *Apr 2024*
- Built a platform to guide career paths, analyze resumes, and power a chatbot, using the Groq API for AI inference and Phidata for multi-agent workflows.
- Built the frontend with Next.js and the backend with FastAPI.

OOP-Based Billing System (C++) *Dec 2022*
- Built a C++ billing system with an administrator module for product management and a buyer module for purchase handling and bill generation.

ACHIEVEMENTS

- Supabase Contest Winner (received swags)
- Odoo Hackathon — Shortlisted for Finals
- GDSC Intro Quiz Winner, among 400 participants
- Genesis College Tech Event — Runner-up

INTERESTS

Agentic AI, Retrieval-Augmented Generation (RAG), Recommendation Systems, Vector Databases, Model Context Protocol (MCP), Transformer Architecture, Docker | Badminton, Cycling, Movies & Web Series