

Utkarsh Pandey

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EDUCATION

Dr. D. Y. Patil Institute of Technology, Pimpri

Bachelor of Engineering in Electrical Engineering

- Expected Graduation: July 2028 (Currently 3rd Year)

Pune, Maharashtra

Sept 2024 – July 2028

TECHNICAL SKILLS

Languages: Python, JavaScript, SQL

AI/ML: LLMs, RAG, Multi-Agent Systems, Vector Databases, Model Context Protocol (MCP), Prompt Engineering, OpenAI API, GPT-4o, CLIP, Tavily API

Frameworks & Libraries: TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy

Backend: Node.js, REST APIs, Supabase

Frontend: React, Streamlit

Databases: SQLite, ChromaDB, FAISS, MariaDB Vector

Cloud & Deployment: Vercel, Render, Firebase

Developer Tools: Git, VS Code, Jupyter, Postman

Other: Data Structures & Algorithms, AI Automation

EXPERIENCE

Co-Founder & AI Systems Lead

Jan 2026 – Present

Autonix – AI Automation Agency

Pune, India (Remote)

- Co-founded an AI automation agency delivering end-to-end AI systems for local service businesses across dental, aesthetic, and home service verticals in UK and UAE markets.
- Architected and deployed a production AI voice receptionist for a UK dental clinic using Vapi, n8n, and Google Calendar, automating inbound call booking end-to-end.

Full-Stack Developer Intern

Jan 2026 – Present

Own The Story (NGO)

Remote

- Develop and maintain frontend features and backend REST APIs for production web applications supporting the NGO's community outreach programs.
- Build scalable full-stack solutions using modern web technologies, participating in code reviews and cross-functional collaboration to ship production-ready code.

PROJECTS

Forge – AI Support Investigation Platform | *Python, FastAPI, Next.js, ChromaDB, SQLite* | [GitHub](#) 2026

- Built a full-stack investigation platform (FastAPI backend, Next.js dashboard) where a deterministic planner routes natural-language questions between allowlisted SQLite analytics and local ChromaDB semantic retrieval over support tickets and GitHub Issues, using a locally-run BGE embedding model and an OpenAI reasoning layer.
- Engineered evidence-grounded responses with confidence scoring, retrieval-strategy transparency, and refusal on unsupported claims, validated through a 50-case evaluation harness (Recall@5, hallucination rate) and a 46-test suite.

Agentic Research PRO | *Python, LLMs, ChromaDB, Tavily API, FAISS* | [GitHub](#) 2026

- Architected an autonomous multi-agent research pipeline with 7 specialized agents spanning web search (Tavily), scraping, semantic chunking, embedding (OpenAI), vector storage (ChromaDB), retrieval, and structured report generation.
- Implemented FAISS-based vector search with semantic chunking and automated PDF export, including source citations and clickable URLs.

SkyVision – Multimodal Travel Search | *Python, CLIP, MariaDB Vector, Streamlit* | [GitHub](#) 2025

- MariaDB Hackathon Shortlisted:** Built multimodal search engine for airports and airline logos using CLIP embeddings and MariaDB Vector, enabling natural language and image-based visual similarity search.
- Deployed Streamlit interface achieving 85% relevance accuracy on 512-dimensional CLIP embeddings via cosine similarity.

ACHIEVEMENTS & CERTIFICATIONS

Flipkart GRID Hackathon – Semifinalist: Advanced to the semifinal round among 35k+ participants.

VIBE HACKS 2025 – 2nd Place Winner: Secured 2nd place among 600+ teams with an innovative AI solution.

6th Rank – InterCollege Hackathon: Ranked 6th among 200+ teams in a competitive innovation challenge.