VISHAL SINGH

Forward Deployed AI Engineer | Full-Stack Builder

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TECHNICAL SKILLS

AI Engineering: LLM Integration (Groq, Llama 3.3-70B), Multi-Agent Pipelines, RAG, LangChain, FAISS, Ollama, Model Context Protocol (MCP)

Full-Stack & Data: TypeScript, Python, Next.js, React, Node.js, PostgreSQL, Supabase (RLS, migrations), GitHub Actions, Vercel

Computer Vision: YOLOv8 (fine-tuning), OpenCV, Multi-Object Tracking

CLIENT ENGAGEMENTS

Hi-Tech Pack | Independent Developer / Forward Deployed Engineer **Sept 2026**

Next.js, TypeScript, Static Export, cPanel | hitechpack.com

- Rebuilt a 26-year-old packaging machinery manufacturer's website: 15 machine pages plus quote-request and support flows, now live in production.
- Deployed it as a static export on the client's existing cPanel shared hosting, so it needs no server, no cloud bill, and no ongoing maintenance.
- Worked directly with the client from scoping to launch, with no agency or PM in between.

PROJECTS

LeakSweep | Course-Piracy Detection & DMCA Takedowns **Oct 2026 – Present**

TypeScript, Next.js, Node.js, PostgreSQL, Supabase

- Building a tool that finds pirated copies of online courses and lets creators file DMCA takedowns from one dashboard.
- Wrote a scheduled TypeScript worker that searches for leaked copies of each registered course and records every leak exactly once.
- Kept the data correct in Postgres itself (row-level security, unique constraints, case-integrity checks) across 10 versioned migrations.

AI Tool Hunter V2 | Autonomous AI Tool Discovery Engine **May 2026**

Python, TypeScript, Groq (Llama 3.3-70B), Tavily API, Next.js, Supabase, GitHub Actions, MCP | Live | GitHub | Dataset

- Built a pipeline that finds, checks, and catalogs new AI tools every day with zero manual work; 216 tools catalogued so far.
- Every new tool is fact-checked by an LLM against live web results before it is saved, so fake or outdated entries never reach the database.
- Ships the data three ways: a web app, a daily-updated public Hugging Face dataset, and an MCP server that AI agents and IDEs query directly.

Defence Drone Threat Detection | KSCST State-Level Exhibition 2026 **July 2026**

Python, YOLOv8, OpenCV, Streamlit | GitHub

- Fine-tuned YOLOv8 models for person and weapon detection and chained them into a detect, track, classify, alert pipeline running at 15–25 FPS.
- Built a Streamlit dashboard showing live detections, FPS, threat history, and mission logs.

LLM PDF Research Assistant | Local to Cloud RAG **Nov 2025**

Python, LangChain, Ollama, FAISS, Mistral, Flask, Groq | GitHub

- Built a PDF Q&A tool that runs fully offline, giving sub-second answers without documents ever leaving the machine.
- Moved it to the cloud (Flask on Render, Groq Llama 3.3) so anyone can use it from a browser.

EDUCATION

B.Tech, Computer Science and Engineering | Reva University, Bengaluru | Graduated July 2026

CERTIFICATIONS

- **Qlik Sense Qualification Exam: Data Architect** | Qlik (2025)
- **Salesforce Certified Agentforce Specialist** | Salesforce (2025)