

MANUJ RAI

AI Engineer & Full-Stack Developer

manuj.services@gmail.com | +91 87999 33509 | Ahmedabad, India (open to Pune, Bengaluru, remote)
manuj.online | linkedin.com/in/manujrai | github.com/manuj-rai

SUMMARY

AI Engineer with 2+ years at a global B2B platform (internship, then full-time since Feb 2025). Shipped two LLM systems an editorial desk uses daily: a human-in-the-loop news discovery and drafting agent and a document-to-article pipeline, both in Python and FastAPI. Full-stack across Angular, React/Next.js, ASP.NET Core and SQL Server.

TECHNICAL SKILLS

AI & LLM: Generative AI, AI agents, agentic workflows, RAG, LangChain, embeddings, pgvector, tool calling, structured output, prompt engineering, text-to-SQL; OpenAI, Azure OpenAI, Claude, Gemini

Languages: Python, C#, TypeScript, JavaScript, SQL (T-SQL)

Backend: FastAPI, Pydantic, SQLAlchemy, ASP.NET Core, .NET 6, ASP.NET Web Forms, REST APIs, SSE, webhooks

Frontend: Angular 21, React, Next.js, RxJS, Highcharts, Tailwind CSS

Data: SQL Server, stored procedures, query tuning, PostgreSQL, Supabase, row-level security, Pandas

Tools & Testing: Git, GitHub Actions, IIS, Vercel, Prometheus, pytest, Playwright, Selenium

EXPERIENCE

Junior Software Engineer | Fibre2Fashion | Feb 2025 – Present | Ahmedabad

Global B2B textile and fashion platform.

- Shipped a human-in-the-loop news discovery and drafting agent (Python, FastAPI, Playwright) that turns an editorial desk's manual morning story hunt into one click: it harvests ~65 primary and ~75 secondary sources across 17 countries, has an LLM score, de-dupe and rank a ~20–30 story shortlist, then drafts publish-ready copy for editor review.
- Cut article prep from retyping eight fields by hand to upload, review, save: a six-phase LLM pipeline turns a Word file into headline, takeaways, contents, body, SEO metadata and FAQs; editorial rules live in SQL and change without a deploy.
- Designed the shared LLM layer behind both: one interface over OpenAI (in production), Gemini and Claude with JSON output, retries, per-job token budgets and cost-tiered models; hosted on IIS inside the company's ASP.NET portal.
- Rebuilding TexPro's Market Intelligence dashboard as a ground-up Angular 21 app (zoneless, signals) from Figma designs; shipped the Sustainability module and streamed AI Insight panels on a shared Highcharts and virtualised-table layer.
- Removed a manual editorial step from a high-traffic news pipeline with an Azure OpenAI integration in .NET 6 that detects and masks sensitive financial figures in paid submissions before publication.
- Delivered Corporate Team Management for seat-based B2B subscriptions (REST APIs, PostgreSQL and SQL Server schemas, invite and payment flows) and automated per-client, multi-currency Excel reporting in C# and EPPlus.

IT Intern | Fibre2Fashion | Jul 2024 – Jan 2025 | Ahmedabad

- Built an internal Inquiry Management System in ASP.NET and C# that teams still use, and automated supplier data collection with Python scrapers (Playwright, Requests, Selenium) and Pandas pipelines into SQL Server.

Freelance Full-Stack Developer | Self-employed, part-time | Jul 2024 – Present | Remote

- Karloo:** 20+ browser-first tools on Next.js 16 and React 19; one registry entry feeds search, category pages, sitemap and JSON-LD, and AI features sit behind a validated, rate-limited OpenAI route.
- Kat-Katha (NGO):** Razorpay donations via HMAC-verified, idempotent webhooks into a Postgres ledger with live totals.
- Trendverse:** Next.js and Supabase D2C store replacing a spreadsheet, Instagram DMs and UPI screenshots.

PROJECTS

AI Portfolio Assistant (RAG) | manuj.online | Next.js, TypeScript, Supabase pgvector, OpenAI

- Grounds answers in the site's own content: text-embedding-3-small chunks in pgvector behind an HNSW cosine index with a similarity floor, so off-topic questions return nothing; content-hash re-ingest re-embeds only what changed.
- Streamed chat with OpenAI tool calling, per-IP and per-user rate limits, and an admin gate enforced in Postgres RLS.

EDUCATION & TRAINING

Bachelor of Business Administration (Computer Applications) | Savitribai Phule Pune University | 2024

Python & AI Engineering Program | Company-sponsored, Fibre2Fashion | LangChain, RAG, AI agents, text-to-SQL | 2025