

AAKASH DAHIYA

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SUMMARY

AI engineer with an MSc in Computer Science who builds and ships LLM-powered products end to end: retrieval-augmented generation, multimodal (vision) pipelines, and the Python/FastAPI and Next.js/Supabase systems around them. Sole developer of a live two-app platform for a used-appliance business in Delhi NCR.

EXPERIENCE

Software Developer | CashFlip (Delhi NCR, remote) Mar 2026 – Present

Tech: Next.js, React, JavaScript, Supabase (Postgres, Storage), Anthropic Claude API (vision), REST APIs, WhatsApp messaging, Google Ads conversion tracking

- Increased lead conversion by **35%** by replacing a manual, call-based quoting process with an online quote wizard and photo uploads.
- Built a lead-generation web app (**Next.js, Supabase**) that gives sellers instant quotes for used appliances.
- Built the CashFlip Store (**shop.cashflip.in**) with an AI listing generator that uses **Claude vision (Anthropic API)** to turn item photos into product titles and descriptions.
- Connected both apps through a shared Supabase (Postgres) backend, with a one-click “List on store” flow that moves purchased items from the buying pipeline to the storefront.
- Implemented cash-on-delivery checkout with WhatsApp order confirmations, and an admin panel with a pricing editor.
- Built keyword-level lead attribution on top of Google Ads conversion tracking, so the admin dashboard shows the search term behind each quote.

PROJECTS

TubeQuery — RAG Q&A over YouTube videos Python, FastAPI, sentence-transformers, Claude Haiku 4.5

- Built a full-stack RAG app that chunks YouTube transcripts, embeds them with **all-MiniLM-L6-v2**, retrieves by cosine similarity, and generates grounded answers with Claude Haiku 4.5.
- Designed a FastAPI backend with an embedding cache and a vanilla HTML/JS frontend.
- Debugged a float32/float64 dtype mismatch that corrupted similarity scores after caching.
- Source code and recorded demo: github.com/aakashdahiya/tubeQuery

TECHNICAL SKILLS

Languages: Python, JavaScript, SQL, HTML/CSS

AI / ML: LLM APIs (Anthropic Claude, incl. vision), RAG, embeddings (sentence-transformers), semantic search, prompt engineering, pattern recognition

Backend & Data: FastAPI, SQLAlchemy, SQLite, Supabase (Postgres, Storage), REST APIs

Frontend: Next.js, React, vanilla JS

Tools: Git/GitHub, Google Colab

EDUCATION

MSc, Computer Science (course-based) | Lakehead University, Thunder Bay, ON 2026

Relevant coursework: Pattern Recognition

Bachelor of Computer Applications (BCA) | Bharati Vidyapeeth Institute of Management & Research (GGSIPU), New Delhi 2025