

Aarav Kashyap Singh

AI/ML Engineer

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Objective

AI Engineer who turns “can you build this?” into systems that actually run in production. I build agentic AI, LLM pipelines, and backend infrastructure for real clients – not demos. I care less about what’s trendy and more about what ships, scales, and holds up under real use. Open to full-time AI/ML engineering roles.

Experience

AI Engineer & Backend Intern – Phoenix Commercial Finance, London

Jun 2026 – Present

via Agnivoz Business Solutions Ltd.

- Built ClearFlow, a document-intelligence pipeline that cut bank-statement bifurcation time from ~30 minutes of manual review to 1–2 minutes automated, with reconciliation accuracy exceeding manual review
- Built backend APIs, OCR/native-PDF extraction, and validation pipelines powering ClearFlow’s production document workflows
- Built CRM integrations and workflow enhancements for internal business operations
- Developed AI automation systems to reduce repetitive manual tasks

Projects

ClearFlow

Python, FastAPI, Gemini/Anthropic/Ollama Vision, PyMuPDF

- Multi-provider vision pipeline for UK bank-statement extraction: native-PDF fast path with automatic fallback to sequential page vision carrying prior-page context
- Three-layer entity normalisation, category harmonisation, and balance-chain reconciliation, with production hardening (SHA-256 key hashing, atomic SQLite reservation, nginx rate limiting, GCP deployment)

TalentMatch [GitHub] [Live]

React, FastAPI, Gemini API, GitHub API

- Solo-built an AI hiring-intelligence platform to fix first-round ATS keyword-matching bias, with an evidence-based two-agent pipeline (Reviewer + Feedback)
- Feedback Agent sends rejected candidates specific, evidence-cited explanations instead of generic rejections – the core differentiator over standard ATS tools
- Validates candidate claims against public GitHub/code-profile evidence before shortlisting; AGPL v3 licensed

advise-project-approach [GitHub]

Claude/Codex Skill, Python

- Open-source Claude/Codex skill enforcing evidence-gated project advice – real constraints, comparable projects, and cost/lock-in analysis before any architecture recommendation
- Reached 42 GitHub stars from organic traction (r/ClaudeAI post, ~21k views); applied to OpenAI’s “Codex for Open Source” program

CryptoQuant [GitHub] [Live]

TensorFlow.js, LSTM, React/Vite

- Built an LSTM-based crypto forecasting terminal to put classroom ML theory (RNNs, ensembling) into a real, working system
- Audited and fixed 20 production issues – corrected ensemble weights, wrong scaler, Monte Carlo Dropout calibration, added walk-forward validation
- Pivoted from a FastAPI backend to a fully frontend TF.js architecture when backend hosting wasn’t viable, cutting infra cost to zero while keeping live inference

Skills

AI Agents & LLM Systems:	Agentic workflows, AI agent automation, custom agent skill design, harness engineering, RAG pipeline design, multi-agent orchestration, prompt engineering, multi-provider LLM routing (Gemini, Anthropic, local/Ollama), vision-based document extraction, OCR pipelines, vision-fallback & reconciliation architectures
Machine Learning:	PyTorch, Hugging Face (model fine-tuning), LSTM forecasting, Temporal Fusion Transformers (TFT), Monte Carlo Dropout, ensemble modeling, walk-forward cross-validation, technical indicator engineering (RSI, MACD, EMA, ATR)
Backend & APIs:	Python, FastAPI, SQLAlchemy, Pydantic, REST API design, Postman
Frontend:	React, Next.js, Vite, Tailwind CSS, Framer Motion, GSAP, React Router
Databases & Caching:	PostgreSQL, MongoDB, SQLite, Redis
Cloud & DevOps:	AWS, Google Cloud Platform (GCP), Docker, Cloudflare, nginx, CI/CD pipelines, GCP Compute Engine deployment
Tools & Practices:	Git, GitHub API integration, audit logging, atomic transaction handling, Node.js/npm

Education

Lovely Professional University

Bachelor of Technology – Computer Science and Engineering
Phagwara, Punjab

Aug 2023 – Jun 2027

Excellencia Junior College

Higher Secondary Education (MPC)
Secunderabad, Telangana

Jul 2021 – May 2023

Delhi Public School

Secunderabad

2010 – 2021