

AAKASH AGGARWAL

Applied AI & Automation Engineer

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SUMMARY

Applied AI & Automation Engineer building production systems across document intelligence, RAG, voice agents, and workflow automation. Strong focus on evaluation, deterministic validation, failure handling, and measurable outcomes.

SELECTED PROJECTS

LERAGS — Local-Only RAG Over Scanned Court Filings

2026

Independent AI Engineering · Python, Docling, OCR, embeddings, retrieval

- Converted 10,062 pages across 64 scanned petitions into 30.5M characters vs. 10.7M in the PDFs' text layer — 2.8× coverage; incumbent layer reached only 35% of the corpus.
- Cut OCR throughput from 13.1 hours to 2.1 hours through pipeline tuning.
- Reduced orphaned table rows from 33.2% to 8.2% by chunking structured documents rather than splitting joined mark-down by character count; validated across ten files.
- Replaced a failing LLM metadata extractor with a court-registry lookup after testing three configurations; registry resolves 62/62 files on every field. Retracted an earlier finding after proving the OCR was legible and the model, not OCR, was responsible.

MIA — Outbound Voice Agent

2026

Skyeverse — Independent AI Engineering · Voice telephony, Airtable, webhooks, state machine

- Airtable calling queue ordered by least-recently-called, with record locking preventing overlapping runs from calling the same person twice.
- Seven-way completion state machine writes distinct CRM states before merging transcript, summary, and objection; webhook acknowledges before processing so slow downstream writes cannot appear as failed calls.

Invoice Auditor

2026

Skyeverse · Gemini Vision, deterministic validation, Telegram

- **Model reads, code computes:** every extracted figure is recomputed downstream; disagreements over half a rupee become reasoned flags rather than model-generated totals.
- Detects line-math errors, contradictory subtotals, mismatched totals, missing signatures, and duplicate invoice numbers; recorded overrides preserve the decision-maker.

Court Automation Suite

2025

Dept. of Revenue, Government of India · Playwright, Tesseract, OpenCV, Streamlit

- Automated High Court cause-list filtering and bulk case-status retrieval, replacing recurring manual lookup and re-entry; numeric verification uses OpenCV preprocessing, digits-only OCR, and retries.

Lead Qualification & Inbound Pipeline

2026

Skyeverse · n8n, Claude, Apify, Notion, Gmail, Calendar

- Combines deterministic profile scoring (40%) with model-based buying-readiness scoring (60%); leads scoring 60+ become Notion records with outreach hooks, while inbound automation handles bounces and calendar reconciliation.

EXPERIENCE

Inspector of GST

Jul 2025 – Present

Department of Revenue, Government of India

Bengaluru

- Built and deployed the Court Automation Suite alongside statutory duties, saving an estimated 2–3 hours/day across a 3-person team.

AI Automation Engineer (formerly Data Analyst)

2023 – 2025

Idea Clan

Panchkula

- Built Magica, a Python + ffmpeg ad-permutation renderer producing 300 videos/hour on a distributed setup, replacing per-variant manual editing and used weekly by 3–4 creative teams.
- Shipped a custom GPT adopted company-wide for campaign analysis and a Telegram intelligence agent filtering ~300–400 founder-group messages/day to relevant messages.

SKILLS

AI & Languages: Python, JavaScript, FastAPI, Docker, Claude, Gemini, OpenAI, RAG, embeddings, structured extraction, agent tool-use, evaluation

Automation & Systems: n8n, Playwright, Apify, webhooks, OAuth, queues/retries, LiveKit, VAPI, Postgres, Supabase, Airtable, pandas

EDUCATION

B.Tech, Mechanical Engineering — Punjab Engineering College, Chandigarh

2016–2020 · CGPA 8.4/10