

IKHLAS SAYYED

AI / GenAI Developer — Agents & LLM Applications

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SUMMARY

I build LLM-based agents and tools end to end — retrieval pipelines, tool-use servers, autonomous monitoring agents — backed by hands-on full-stack experience shipping production systems. Comfortable owning a project from the model/data layer through to a deployed product.

AI / AGENT PROJECTS

Autonomous Stock News Monitoring Agent

Python · LangChain · FAISS

- Built an agent that continuously pulls news related to a user's held US stocks and sends a daily summary of relevant developments, without manual triggering.
- Uses FAISS for vector storage and retrieval so the agent matches incoming news to the specific stocks a user is tracking, instead of surfacing generic headlines.

MCP Server for OS-Level Agent Tooling

Python · Model Context Protocol

- Built a local MCP server that exposes OS-level actions as tools for an LLM agent — file search, file management, listing open terminals, and launching new ones.
- Agent can chain these actions together, like finding a file and opening a terminal in that folder, instead of calling them one at a time.

Cold Outreach Auto-Mailer for Job Seekers

Next.js · Prisma · LLM API · Gmail API

- Built a tool that generates and sends personalized outreach emails to recruiters/HRs from a candidate's resume, with two send modes — Gmail API and standard mail sending.
- Next.js + Prisma backend storing candidate profiles, generated drafts, and send history; LLM personalizes each email against the target company and role.

CPU-Only Local Speech Transcription Tool

Rust · Electron · Whisper (open-source)

- Built a local, privacy-preserving alternative to cloud dictation tools, running a lightweight open-source Whisper model entirely on CPU.
- Electron front end paired with a Rust backend for audio capture and transcription; working end to end, with final polish in progress before open-sourcing.

InsightNest — Startup Idea Validator

React.js · LangChain · MongoDB

- Built a tool that validates startup ideas by pulling and aggregating discussion from Google, Reddit, and X, then uses LangChain to generate a structured validation report.
- Grown to around 100 users since launch.

RESEARCH

Selective Transfer Learning via CKA-Gated Fine-Tuning

Final-Year Research Project

- Developing a layer-wise fine-tuning method that uses Centered Kernel Alignment (CKA) to decide which layers to transfer versus retrain, aimed at reducing negative transfer between source and target domains.
- Initial implementation on ResNet18 with a Brain Tumor MRI dataset reached 94.44% accuracy vs. a 94.13% baseline; currently extending the experiment to ResNet50 on RESISC45 to demonstrate the effect more clearly on a harder transfer setting.

FREELANCE / FULL-STACK EXPERIENCE

Full-Stack Developer (Freelance) — Tacklewala.com, Cafe ZamZam

2025 – Ongoing

- Built and maintain production systems (Next.js, Express, Prisma, AWS) — e-commerce platform with automated SEO-driven product listing, and a restaurant management system with real-time order updates.

SKILLS

AI / Agents: LangChain, MCP (Model Context Protocol), FAISS, RAG pipelines, LLM API integration (Claude, OpenAI)

Languages: Python, TypeScript, Rust, C++, JavaScript

Frameworks: Next.js, React.js, Express.js, FastAPI, Prisma

Databases: MongoDB, MySQL, PostgreSQL, FAISS

Tools & Cloud: Git, AWS (EC2, S3), Docker, REST APIs, WebSockets, Gmail API

EDUCATION

Savitribai Phule Pune University (SPPU)

Expected 2027

Bachelor of Engineering, Computer Engineering