

# SAKSHAM AGARWAL

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## Skills

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- **Programming Languages** : Python | TypeScript | JavaScript
- **AI Framework** : PyTorch | TensorFlow | RAG | Agents | LLM | NLP
- **Full-Stack** : React | Next | Node | Express | Fastify | FastAPI | RestAPI | Flask | Electron | Tauri
- **Cloud & Databases** : MySQL | Postgres | MongoDB | AWS | GCP | VectorDB | Docker | GitHub

## Experience

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**AI Intern** IIT Jammu *Jammu & Kashmir, India* **06/2025 - 08/2025**

- Developed a multi-agent platform for admin workflows, boosting productivity by **40%**, using **Langgraph, CrewAI Agent SDK, Huggingface** with real-time AI orchestration
- Built **8** automation pipelines with APIs, improving execution speed, via multi-agent workflows.

**Software Engineer Intern** Chalk Digital *California, USA* **05/2025 - 07/2025**

- Created a smart chat assistant for **15+ categories**, improving automation efficiency, using **RAG and LLM stack**
- Engineered a RAG pipeline with **98.94% accuracy, enhancing retrieval quality**, using **FastAPI, ChatGPT, LLaMA APIs**
- Achieved **10ms latency**, improving speed and reliability, via optimized backend and caching

**Freelancer** Freelancing **2023 - Current**

- Handled **20+** end-to-end projects, ensuring reliable delivery across projects, using AWS, VPS, full-stack and AI workflows.
- Reduced manual effort by up to **60%** and retained clients for **2+ years**, showing consistent performance, through automation systems and custom AI solutions

## Projects

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**Auto LLM Fine Tuning** ArclinkTune [Github](#)

- Built an Electron-based desktop app to automate LLM fine-tuning by selecting datasets and models; added training/evaluation graphs, chat interface, export options, and full training stats/config visibility.
- Set up an Electron + React (TypeScript) frontend with a FastAPI backend; integrated LlamaFactory for automated pipelines, managed configs internally, and tracked real-time training metrics and system usage.
- Reduced manual effort in fine-tuning by **70–85%**; simplified workflow from setup to evaluation and usage in a single interface.

**Desktop AI Assistant** Tinkle [Github](#)

- Developed privacy-focused AI desktop assistant running as an invisible overlay for real-time help in meetings, interviews, and presentations and supports 2 providers (Gemini & Ollama).
- Engineered app with IPC, hotkeys, and transparent overlay mode, 8 core features including contextual chat, audio processing, screenshot-based assistance, and global shortcuts with 0.468s response time.
- Handled 90–95% of user queries in real time; enabling quick, uninterrupted assistance across workflows with multi-provider flexibility.

**GST Filing Platform** Yanisolution [Live](#)

- Designed a GST platform with **25+ features**, reducing manual effort and improving compliance accuracy, using **MERN stack**.
- **Executed** scalable backend handling **50K+ daily users**, ensuring low-latency and reliable workflows, using caching, MySQL optimization.

## Education

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**Bachelor of Technology** Manipal University Jaipur *Rajasthan, India* **2022 - 2026**

- B.Tech (Electrical and Computer) | **CGPA: 9.62**

**HSC/SSC** Ryan International School *Rajasthan, India*

- Class 12th CBSE | 2020 - 2021 | **94.2%**
- Class 10th CBSE | 2018 - 2019 | **87.8%**

## Mentorship

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- **Strong Academic Performance:** Achieving Dean's List recognition for 7 consecutive semesters
- **Open-Source Contributor:** Contributed to GDC Summer Code Camp and Hacktoberfest, to real-world projects.
- **Certifications:** 25+ certifications from institutions like Google and Columbia University, covering AI, GenAI, ML, DL, and full-stack development.