

# SAURABH KUMAR BAJPAI

saurabhbjpai03@outlook.com • +91 82994 46341 • Lucknow, India  
[linkedin.com/in/saurabhbjpai03](https://www.linkedin.com/in/saurabhbjpai03) • [github.com/saurabhcodes](https://github.com/saurabhcodes)

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## PROFESSIONAL SUMMARY

AI Engineer specializing in autonomous and agentic AI systems, multimodal pipelines, and backend AI infrastructure. Contributor to Google's Agent Development Kit (Python & Go), shipping production-grade fixes improving A2A reliability, function-call handling, and agent orchestration. Hands-on experience with RAG systems, LLM/VLM integration, cloud-native AI deployments, and enterprise automation.

## EXPERIENCE

### AI Engineer Intern — Akoode Technologies Pvt. Ltd.

*Jan 2026 – Present | Gurugram, Haryana (On-site)*

- Supporting end-to-end development of multimodal AI systems spanning text, image, and audio inputs.
- Built data curation and preprocessing pipelines for high-quality LLM/VLM training datasets.
- Assisted in fine-tuning LLMs/VLMs and implementing RAG pipelines to improve response accuracy.
- Developed agentic AI components enabling intelligent task routing and multimodal reasoning.

### Software Engineer (AI + Backend) — Freelance (Fiverr)

*Aug 2025 – Present*

- Built Outlook Calendar NLP Assistant using Microsoft Graph API; achieved 97% intent accuracy.
- Implemented Google & Microsoft SSO for enterprise chatbot platform chatlly.com.
- Developed you.fyi, a workspace and digital asset management system with shareable kits.

### Software Engineer Intern (AI/ML) — Atmohive Biotech

*May 2024 – Jul 2024*

- Created GeneInsight, a Spring Boot bioinformatics SaaS reducing DNA analysis time by 80–90%.
- Built conversational NLP modules and 3D molecular visualization tools.
- Delivered RBAC-enabled multi-tenant dashboard used by 100+ researchers.

### AI/ML Research Intern — Amity University Bioinformatics Lab

*Jul 2025 – Sep 2025*

- Developed OpenBioGen AI, a gene–disease prediction system using custom RAG pipelines.
- Integrated PubMed, OMIM, and UniProt ETL pipelines, reducing compute latency by 40%.
- Implemented retrieval explainability and reasoning trace modules.

## OPEN SOURCE & KEY PROJECTS

### Google — Agent Development Kit (ADK) (Python & Go) — Contributor

- Fixed critical runtime errors in RemoteA2aAgent, improving agent communication reliability.
- Enhanced function-call handling and reasoning trace consistency in multi-agent workflows.

- Added unit tests in Python and Go, improving stability and code coverage.

### **Deal Doctor — Agent.AI Global Challenge Winner**

- Built autonomous HubSpot CRM automation system with intelligent deal pipeline management.
- Implemented automated lead scoring and autonomous follow-ups using multi-agent orchestration.

## **TECHNICAL SKILLS**

**Programming:** Python, Java, Go, SQL, TypeScript

**AI / ML:** LLMs, VLMs, RAG, Agentic AI, Multimodal AI, Prompt Engineering, NLP

**Frameworks & Platforms:** Google ADK, Agent.AI, Spring Boot, FastAPI, Gin

**Cloud & DevOps:** AWS, Google Cloud Console, Microsoft Azure Console, Firebase, Docker

**Databases:** PostgreSQL, MySQL, MongoDB, pgvector

**Tools:** Git, Linux, REST APIs, OAuth, Microsoft Graph API, OpenCV

**CS Fundamentals:** Data Structures, Algorithms, OS, DBMS, Computer Networks

## **HONORS AND ACHIEVEMENTS**

- Global Agent.AI Challenge Winner — Built Deal Doctor, an autonomous HubSpot CRM automation system
- Qualified Round 2 of TCS HackerQuest CyberSecurity Challenge
- Candidate Master (Codeforces), LeetCode Top 10%
- Google Summer of Code Contributor, Google Code Jam Participant

## **EDUCATION**

### **B.Tech Biotechnology, Amity Institute of Biotechnology, Lucknow**

2022 – 2026

Relevant Coursework: Data Structures, Algorithms (Java), Operating Systems, DBMS, Distributed Systems