

# Alok Agarwal

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## Professional Experience

### AI Intern, Talenttrackr Technologies

05/2025 – present

- Architected and deployed a secure, production-ready RAG system using PostgreSQL/pgvector, SBERT embeddings, and Ollama, with semantic caching, multi-document support, and BLIP + EasyOCR for file parsing. Reduced query time from minutes to seconds and enabled department-specific data access via dynamic query routing for HR, Tech, Sales, etc.
- Built multilingual AI translation and Text-to-SQL systems with Streamlit UI. Used IndicTrans2, mBART-50, and Google Gemini, enabling dynamic language selection, two-stage translation, and semantic caching for fast, accurate SQL generation.

### Summer Intern, Celebal Technologies

05/2025 – present

- Learned SQL through hands-on projects covering queries, joins, views, indexes, triggers, CTEs, and advanced reporting.
- Built a sales report using SQL Server ROLLUP to calculate totals by product category and overall sales.

### Tech Intern, 108 Adventures Advisory LLP

01/2025

- Built AI workflows to automate manual tasks, enhancing productivity and streamlining operations across the board.

### Business Development Intern, Qubit Capital

06/2024 – 11/2024

- Helping connect busy Startup Founders with the Right Investors
- Collaborated with cross-functional teams to develop and implement effective business strategies.
- Engaged with potential clients, ensuring seamless scheduling and follow-up for successful lead closures using HubSpot CRM.

### Business Development Intern, Cube

04/2024 – 09/2024

Effectively engage with potential customers and optimize strategies for Cube

### VF Youth Ambassador, Viral Fission

04/2023 – 11/2023

Created compelling content for interactive audience engagement, gaining practical expertise in digital marketing and content strategy.

### Chairperson, UEM JAIPUR ACM Student Chapter

04/2024 – present

- Lead Organizer - AceHack 4.0, a 36-hour, in-person student-run hackathon, renowned as Rajasthan's largest hackathon.
- Organized DSPs, workshops and coding competitions

## Education

### B.Tech - Computer Science and Engineering,

University of Engineering & Management, Jaipur

CGPA - 8.44

## Skills

**Programming Languages:** Java, Python, SQL, C

**Databases:** PostgreSQL, SQLite, ChromaDB

**Frameworks/Libraries:** HuggingFace Transformers, LangChain, Streamlit, bitsandbytes, FAISS

**Tools & Technologies:** Git/GitHub, Google Colab, Ollama

**Core Concepts:** LLMs, NLP, RAG, Prompt Engineering, Vector Storage, System Architecture, API Integration, Web Development, DSA, OOP, DBMS, OS, CN

**Technical Skills:** Project Management, Agile Methodology, Data Analysis, Technical Documentation, SDLC, Version Control, Systems Integration

**Soft Skills:** Problem-Solving, Critical Thinking, Communication, Teamwork, Leadership, Time Management, Attention to Detail

## Projects

### AI Super App

An all-in-one platform for users to generate personalized images with their own face or prompts, create videos, interact with chatbots, and manage galleries seamlessly for a creative experience with user sign-in/up.

### Face Recognition based Gate Pass System

Revamped antiquated manual entry systems, boosting efficiency, security, and precision through the adoption of face recognition technology, automation, and robust authentication mechanisms.

## Certificates

### Programming In Java

05/2025 | SWAYAM | NPTEL | Elite (85%)

### Data Base Management System

09/2024 | SWAYAM | NPTEL | Elite (73%)

### Problem Solving Through Programming in C

11/2023 | SWAYAM | NPTEL | Elite + Silver (75%)

### The Joy of Computing using Python

05/2023 | SWAYAM | NPTEL | Elite + Silver (80%)

### Python for Data Science

03/2024 | SWAYAM | NPTEL | Elite + Silver (75%)

## Achievements

- Organised 5 Hackathons, 5 Fests & 50+ Events.
- HackerRank 3★ in Java, Python, C & SQL.
- 2nd Runner-up in GenAI Competition | TechFest UEMJ.
- Runner-up in Coding Competition | ACM UEM Jaipur.
- Winner of WordPress Competition | Coding Club UEMJ.