

# Sai Mohit Kotta

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## Summary

Aspiring **Software** and **AI Engineer** with focus on **Backend**, **System Design**, **Cloud** and **Applications of ML** such as **LLMs** and **RAG**. Currently learning about **Data Warehousing** and **Data Lakes**.

## Education

Shiv Nadar University, Noida

2024 – 2028

*Bachelor of Technology in Computer Science and Engineering*

CGPA: 8.67/10

- **Dean's List'25** recipient for outstanding academic performance (9.48 SGPA).
- **Relevant Coursework:** Data Structures, Operating Systems, Database Management Systems, Computer Architecture, Object-Oriented Programming, System Design, Cloud Computing, Social Network Analysis.

## Work Experience

Salesforce Developer Intern

May 2025 – July 2025

*Ernst & Young (under guidance of Mr. Parth Vasani)*

Pune

- Developed a **hotel management system Chatbot** using **Agentforce for Service**, enabling intelligent case handling and integrating **cloud-based data retrieval** through Salesforce Data Cloud.
- **Trained** the conversational chatbot using **Agentforce** to respond to **10+ types of queries** about guest bookings, completed **Salesforce Administrator (Intermediate)** worth **15,000+ Trailhead points**

## Projects

Flight Disruption Recovery Assistant - Rule Based | Python, Streamlit, SQLite, Flask

[Github](#)

- Built a **rule-based flight recovery web application** that intelligently suggests alternative flights during disruptions using **keyword intent detection** and automated **parameterized SQL generation**.
- Designed a **multi-factor heuristic ranking engine** scoring flights on **7 factors** (seats, weather risk, etc.) using **500+ flight records**(Local + API), with built-in **explainability** for transparent decisions.
- Integrated **real-time disruption news feeds** (RSS + Twitter/X) and **OpenSky live flight sync** with caching for fast responses, delivered through a **professional Streamlit chat UI** and Flask API backend.

RAG From Scratch | Python, LangChain, Vector Databases

[Github](#)

- Built a full-stack **Retrieval-Augmented Generation (RAG)** system from scratch, implementing document ingestion, chunking, embedding, and vector-based retrieval over **10k+ documents**.
- Implemented advanced retrieval strategies including **Multi-Query**, **RAG-Fusion**, **HyDE**, and **query decomposition**, improving retrieval relevance and factual grounding by **35–40%**.
- Designed modular pipelines with **semantic routing**, **cross-encoder re-ranking**, and **contextual compression**, reducing token usage by **40%** while preserving answer accuracy.

## Open Source

- **Juspay (Blend Design System):** Fixed a production UI bug by preventing non-standard props (tokens) from reaching **DOM elements**, eliminating React unknown-prop warnings and **improving maintainability**.
- **Hacktoberfest** : Super Contributor; delivered **14+ merged PRs** across Juspay, **Alchemist AI**, and **SuperTinyIcons**, including Canvas fingerprinting detection, Python linting CI (Black, isort), optimized SVG assets.

## Technical Skills

- **Programming Languages:** C, C++ (proficient), **Java** (proficient), **Python** (Intermediate), **SQL** (Intermediate)
- **Web Development:** HTML, CSS, JavaScript, TypeScript, React.js, Next.js, Tailwind CSS, ShadCN/UI, Node.js, Express.js, MongoDB, PostgreSQL, Supabase, Debugging tools, **Stripe** integration
- **Certifications:** Agentforce for Service - **Salesforce Superbadge**, **Oracle Cloud Infrastructure**, Social Network Analysis - **IIT-Delhi**, API Fundamentals - **Postman**, AWS Foundations Architect - **AWS** (ongoing)

## Achievements

- **Competitive Programming:** Solved **550+** DSA Problems, **Pupil** on Codeforces and **1775 (Top 9%)** LeetCode
- **Hackathons:** Secured **1st position** among **50+ teams** at **Smart India Hackathon SNU'24 (INR 15,000)**, **3rd position** among **200+ participants** at **HackenShimtz SNU'25**, and **Top 10** at **Masters Union Hackathon**.
- **Academic:** Top **5%** in JEE with **100% scholarship in 11th and 12th**, topped the Social Network Analysis course from IITD (top 5%) among **3000+ students**, **3rd Nationally in SOF-IEO** among **100,000+ students**.
- **Leadership & Clubs:** International MUN Ambassador & ACM Member co-hosted an event with 80+ attendees.
- **Volunteering:** Played **Piano blindfolded** to **raise awareness** on International Day of the Blind, taught **40+ children** at Aura Foundation: basics of time, location, and English, participated in **blood donation** drives.