

# SUNNI KUMAR

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## SUMMARY

Backend / GenAI Engineer with production experience at FreshMenu, pursuing B.S. in Data Science at IIT Madras. Building scalable backend systems (FastAPI, Spring Boot) and production-grade AI solutions (RAG pipelines, LLM integrations). Focused on high-performance APIs, event-driven architectures, and intelligent automation systems.

## EXPERIENCE

### FRESHMENU

#### Software Developer

Bengaluru, Karnataka

(Mar 2024 – Present)

#### Backend Engineering & APIs

- Built **high-performance REST APIs** for core ordering platform using Java, Spring Boot, and SQL databases.
- Ensured high availability and sub-second response times during peak order volumes with robust error handling.

#### ONDC Partner Integrations

- Architected integrations with **Magicpin and Bitsila ONDC**; implemented secure OAuth authentication flows.
- Built event-driven order sync with **sub-200ms latency**; implemented retry logic and failure recovery mechanisms.

#### Automation & Data Pipelines

- Developed **automated financial reconciliation pipelines** to cross-verify multi-source transaction data accurately.
- Eliminated **15+ hours/week** of manual audits with near-zero discrepancies and improved data accuracy.

**Technologies:** Java, Spring Boot, PostgreSQL, SQL, REST APIs, OAuth, Webhooks, Docker, Git

### FRESHMENU

#### Software Developer Intern

Bengaluru, Karnataka

(Sep 2023 – Mar 2024)

- Developed backend modules for order management system using Java and Spring Boot framework.
- Implemented RESTful API endpoints with request validation, error handling, and Swagger API documentation.
- Collaborated on database schema design and SQL query optimization for PostgreSQL databases.

**Technologies:** Java, Spring Boot, PostgreSQL, JUnit, Mockito, Swagger, Git

## PROJECTS

### AI AGENT FOR ACADEMIC GUIDANCE

Jan 2025 – Present

- Engineered full-stack **RAG pipeline** for intelligent document search and Q&A using LangChain framework.
- Built FastAPI backend with **JWT authentication** and vector similarity search using pgvector extension.
- Deployed Vue 3 frontend on Vercel and Python backend on **AWS EC2** with automated CI/CD pipelines.

**Technologies:** Python, FastAPI, LangChain, pgvector, PostgreSQL, OpenAI API, Vue.js, AWS

### SPATIO-TEMPORAL CRIME PREDICTION

Jan 2025 – Mar 2025

- Developed **multi-class classification model** using XGBoost to predict crime categories from patterns.
- Performed **feature engineering and EDA** on high-dimensional datasets with cross-validation tuning.

**Technologies:** Python, XGBoost, Scikit-learn, Pandas, NumPy, Matplotlib

## EDUCATION

### INDIAN INSTITUTE OF TECHNOLOGY MADRAS

#### B.S. in Data Science and Applications

Chennai

(May 2022 – Apr 2026)

**Coursework:** Machine Learning, Deep Learning, Database Systems, Data Structures & Algorithms, Statistics

### MASAI SCHOOL

#### Intensive Backend-Focused Program (9-9-6 Curriculum)

Full Stack Development

Practical full-stack training with focus on **Java, Spring Boot, and MySQL**. Solved **1200+ DSA problems**. 12 hrs/day, 6 days/week immersive learning.