

Akshat Nigam

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PROFILE

Final-year Computer Science undergraduate with a strong foundation in secure software engineering, backend systems, and applied AI. Experienced in building scalable, testable applications using Java, Spring Boot, and Python, following Agile and CI/CD practices. Skilled at designing robust RESTful APIs, implementing authentication and authorization, and applying design patterns to improve code quality and maintainability. Passionate about writing clean, well-documented code, improving system reliability

EDUCATION

Thapar Institute of Engineering and Technology

Bachelor's of Technology in Computer Science and Business System

Patiala, Punjab

Sep 2022 - Present

COURSES AND CERTIFICATIONS

Data Analysis with Python

Certificate Link

IBM

Grade: **92%**

Natural Language Processing

Certificate Link

DeepLearning.AI

Grade: **97.72%**

PROJECTS

Athletica AI | Java, Spring Boot, Docker, MongoDB

Oct 2025

- Engineered a secure, **Spring Boot microservice architecture** integrating **Eureka, API Gateway, and Keycloak (OAuth2)** to enable authenticated REST API communication and horizontal scalability.
- Developed an **AI-driven recommendation service** using **RabbitMQ, MongoDB, and Google Gemini API**, following asynchronous messaging patterns for efficient task distribution.
- Implemented **GitFlow branching** and automated build/deploy pipelines with **GitHub Actions CI/CD** and Docker Compose, achieving reproducible, containerized deployments on **AWS EC2**.

FinSync | Python, NLP

May 2025 – Jun 2025

- Developed an AI-driven **multi-agent orchestration system** enabling users to query their accounting data (QuickBooks, Zoho Books) through natural language.
- Designed **NLP pipelines** for intent detection and entity extraction, translating user queries into precise financial data retrieval and summarization tasks.
- Integrated QuickBooks/Zoho APIs with **async execution (AsyncIO)**, ensuring low-latency, real-time responses during multi-query sessions.

xAnalysis | Python, HuggingFace

October, 2024

- Developed a real-time Twitter analysis platform that scrapes tweets using **Selenium** and provides actionable insights on user-selected topics.
- Integrated **HuggingFace Transformers** to gauge user sentiment, **RAG (Retrieval-Augmented Generation)** for summarizing large sets of tweets effectively, and **LDA (Latent Dirichlet Allocation)** for advance topic modeling, categorizing tweets into themes.
- Built an interactive dashboard to visualize user engagement metrics, trending topics, sentiment analysis, and topic-specific summaries.
- Demonstrated use cases such as brand monitoring, competitor analysis, and issue categorization with data-driven visualizations.

TECHNICAL SKILLS

Languages: HTML/CSS, Python, Java, JavaScript, SQL

Frameworks: SKlearn, TensorFlow, HuggingFace, React, SpringBoot, Langchain

Tech Stack: Data Science, Deep Learning, Generative AI, Full-Stack Development, DSA

ACHIEVEMENTS

SatHack 2024: 1st Place in Open Innovation category.

Amazon ML Challenge 2024: All-India Rank 273 among 80,000+ participants.

Adobe Gen AI Hackathon 2024: Ranked top 5% nationwide.