

# ROHIT KUMAR

Shiv Nadar University, Chennai

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Aspiring Software Development Engineer with a solid foundation in computer science. Experienced in building scalable and efficient systems, designing robust software architectures, and developing high-quality applications. Skilled in problem-solving, algorithm design, and collaborative development. Passionate about creating impactful, maintainable, and high-performance software solutions.

## Education

Shiv Nadar University, Chennai

September 2022 – May 2026

Artificial Intelligence & Data Science

Chennai, Tamil Nadu

## Technical Skills

**Programming Languages:** Java, Python, JavaScript

**Web Development & Backend:** React.js, Node.js, Express.js, FastAPI, REST APIs, Microservices, HTML, CSS

**Databases:** MySQL, MongoDB

**Cloud & Tools:** Git, Docker, Jupyter, AWS

**Computer Science Fundamentals & Methodologies:** Data Structures & Algorithms, Object Oriented Programming, Design Patterns, System Design, Computer Networks, Operating Systems, Agile Methodology

## Experience

Precision Infomatics Pvt. Ltd.

May 2025 – July 2025

Machine Learning Intern

Chennai, Tamil Nadu

- Developed a real-time facial recognition system in **Python** with 91% accuracy in a 5-member team.
- Integrated **CNN-based DL** models for real-time recognition, reducing false positives.
- Evaluated models using **ROC-AUC**, **precision-recall**, and **Cohen's Kappa** for performance tuning.
- Enhanced dataset size and diversity by generating 800+ synthetic samples using **StyleGAN**, improving model generalization.

Cognifyz Technology

November 2024 – December 2024

Front End Developer Intern

Chennai, Tamil Nadu

- Designed responsive web pages using **React.js** and **CSS**, improving cross-device usability by 30%.
- Integrated frontend components with backend **REST APIs** using **Axios** and **Express.js**, reducing page load time by 25%.
- Created **Postman** test collections for **REST API** endpoints, reducing regression testing time by 50%.
- Deployed a scalable **FastAPI** backend capable of handling 90+ concurrent queries with <200ms average response time.

## Projects

Semantic News Search Engine | **FastAPI**, **Sentence-BERT**, **FAISS**, **React.js**, **CSS**

January 2025

- Developed a **semantic search engine** using **Sentence-BERT** and **FAISS**, enhancing **result relevance** by 45%.
- Designed a **responsive UI** with **React** and **CSS** for seamless multi-device navigation.
- Deployed a **FastAPI backend** capable of handling **90+ concurrent requests** with 200ms average latency.
- Wrote **PyTest-based unit tests** for core **API endpoints**, achieving **80% code coverage**.

Bank Management System | **Java**, **JavaFX**, **OOP**, **File Handling**, **MySQL**

January 2024

- Built a **Java-based desktop banking system** simulating operations such as **account creation**, **deposits**, **withdrawals**, and **transaction logs**.
- Designed an **interactive GUI** using **JavaFX** to manage **500+ customer records** with **real-time updates**.
- Implemented **JUnit tests** covering all **business logic paths**, achieving **85% code coverage**.
- Improved **transaction reliability** through **robust validation** and **exception handling**.

## Achievements

**Code Fusion 2.0 – Hackathon:** Ranked 7<sup>th</sup> nationally for proposing an original problem and developing a fully functional AI-based prototype.

**SNF Foundation Scholarship (2022–2026):** Received a 100% scholarship for academic excellence in the B.Tech. Artificial Intelligence & Data Science program.

**LeetCode:** Solved 450+ problems on **LeetCode** with a contest rating of 1576, specializing in algorithms and data structures.