

# Nikhil Yadav

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## EDUCATION

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### Sitare University (with SRMU)

Bachelor of Technology (B.Tech.) in Computer Science

Lucknow, India

May 2027

- **Relevant Coursework:** DSA, OOP, DBMS, Operating Systems, Computer Networks, Information Retrieval, AI, ML, Deep Learning, Web Development, Economics for CS.

## EXPERIENCE

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### Software Testing Intern

Beans.ai

May 2025 – Aug 2025

Noida, India

- Developed Selenium WebDriver automation scripts for 130+ regression test scenarios using JavaScript.
- Improved automation reliability by optimizing DOM locators, explicit waits, and dynamic element handling.
- Performed API validation using Postman and SQL-based data verification to ensure application correctness.
- Collaborated with developers to reproduce, debug, and verify software defects using Git, Mocha, and Selenium.

### Data Analyst Intern

MogliX

May 2024 – Aug 2024

Noida, India

- Developed Python automation scripts to extract product details, reviews, and URLs from e-commerce platforms.
- Built Flask APIs integrating Selenium and BeautifulSoup for scalable web scraping workflows.
- Integrated MongoDB, Postman, and Gemini AI to automate data collection and preprocessing.
- Improved data extraction efficiency through reusable scraping pipelines and API-based workflows.

## PROJECTS

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### Dharma RAG | Flask, PostgreSQL, LLaMA 3.1, SentenceTransformers

- \* Developed a RAG application to answer Bhagavad Gita queries using semantic search.
- \* Integrated SentenceTransformers with LLaMA 3.1 to retrieve relevant context and generate accurate responses.
- \* Designed Flask APIs with PostgreSQL backend for efficient document retrieval and response generation.

### Campus Marketplace | Flask, React, PostgreSQL, JavaScript

- \* Developed a full-stack marketplace enabling students to buy and sell products within a campus community.
- \* Designed RESTful APIs for authentication, product listings, search, and CRUD operations using Flask.
- \* Integrated PostgreSQL with a React frontend for seamless end-to-end marketplace workflows.

### JobCatch | Flask, Scikit-learn, Selenium

- \* Developed an ML-powered platform to predict suitable job roles from uploaded resumes.
- \* Implemented resume generation and interview preparation features using Flask and Scikit-learn.
- \* Automated data collection and preprocessing using Selenium for ML prediction workflows.

### ML Chatbot | Flask, PostgreSQL, LLaMA 3.1, Scikit-learn

- \* Developed an information retrieval chatbot for answering Machine Learning concepts and technical queries.
- \* Integrated PostgreSQL with LLaMA 3.1 to generate context-aware responses through semantic retrieval.
- \* Designed Flask-based backend APIs for efficient document indexing and retrieval.

## TECHNICAL SKILLS

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**Languages:** Python, Java, JavaScript, SQL

**Frameworks:** Flask, FastAPI, React.js, Node.js

**Databases:** MySQL, PostgreSQL, MongoDB

**Testing:** Selenium WebDriver, Mocha, Manual & Regression Testing

**Tools:** Git, GitHub, Linux, VS Code, Postman

**Libraries:** Pandas, BeautifulSoup, Scikit-learn, Matplotlib

**Concepts:** REST APIs, OAuth, JWT, Data Structures, Algorithms, OOP, DBMS, Operating Systems

## SCHOLARSHIPS

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**100% B.Tech Computer Science Scholarship**

Sitare Foundation

Oct 2023 – May 2027