

Nishchal Vyas

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SUMMARY

Computer Science graduate with hands-on experience in Python backend development and AI-powered application development through internship and academic projects. Experienced in building scalable REST APIs, integrating Large Language Models (LLMs), and developing Retrieval-Augmented Generation (RAG) applications using modern AI frameworks and vector databases. Passionate about AI Engineering, backend development, and building production-ready Generative AI solutions.

SKILLS

Programming Languages:	Python, Java, SQL
AI / ML:	RAG, LLMs, Hugging Face, Machine Learning
Frameworks & Libraries:	LangChain, Flask, FastAPI, Streamlit, Scikit-learn, Numpy, Pandas
Database:	PostgreSQL, SQLAlchemy, ChromaDB, FAISS, MongoDB
Tools & Platforms:	Docker, GitHub, Power BI, Apache Superset, Jupyter Notebook

WORK EXPERIENCE

National Informatics Centre (NIC) Headquarters

Jan 2025 – Mar 2025

Intern

- Developed Python-based REST APIs and backend services while managing PostgreSQL databases to support cloud-based government applications.
- Built 5+ interactive dashboards in Apache Superset, reducing report generation time by 40% and optimizing SQL queries across 10+ PostgreSQL datasets to support data analysis and reporting.

PROJECTS

PrepPilot – AI-Powered Placement & Interview Preparation Platform

[Link](#)

- Developed a full-stack AI-powered placement preparation platform using React, FastAPI, PostgreSQL, REST APIs, and LLMs, featuring mock interviews, ATS resume analysis, and personalized learning.
- Built backend APIs, recommendation workflows, performance dashboards, and admin tools for question management, user analytics, and adaptive practice.

Food-Quality-Classifer

[Link](#)

- Designed and deployed a CNN-based food freshness classification system using TensorFlow and OpenCV, achieving 87% accuracy.
- Built a Flask web application supporting real-time webcam input, batch processing, SQLAlchemy authentication, and automated reports.

AI-Based News Credibility Checker

[Link](#)

- Developed an intelligent system to analyze news articles and generate credibility scores using Natural Language Processing and Machine Learning techniques.
- Implemented a Flask-based REST API with a Random Forest classifier, integrating NLTK and TextBlob for feature extraction including sentiment analysis, source credibility, and suspicious pattern detection.

EDUCATION

2022 – 2026	B.Tech in CSE at LNCT University	CGPA: 6.82
2021 – 2022	Class 12th, St. Montfort Sr. Sec. School	67.8%

CERTIFICATIONS

- J.P. Morgan Chase & Co. Software Engineering Job Simulation – Forage
- Google Developer Student Club (GDSC) Web Development Bootcamp
- The Complete SQL Bootcamp: Go from Zero to Hero – Udemy