Niyam Jain

New York | niyamjain2003@gmail.com | +1 (862) 436 8205 | niyamjain.com | in LinkedIn

Technologies

AI & Machine Learning: Gemini, RAG Pipelines, Vector Database, BERT, OpenAI, Hugging Face, NLP, CNN, RNN, Data Preprocessing, Model Optimization, Naive Bayes, SVM.

Frameworks: Flask, TensorFlow, Keras, Scikit-learn, Pandas, NumPy.

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

Cloud Technologies: AWS, IBM Cloud Platform.

Databases: MySQL, MongoDB, NoSQL.

Tools and Technologies: Git, GitHub, Docker, Tableau, WebRTC, Bootstrap, Jupyter Notebook, VS Code.

Experience

Web Developer — *Newark, USA*
New Jersey Institute of Technology — *Oct 2025 - Present*

- Working to optimize website animations so that all interactive elements remain responsive and seamless while reducing CPU/GPU load by **35%**.
- Using **WebGL**, **JavaScript**, **React** and **Wordpress** to enhance rendering efficiency and restructure animation logic.
- Improved site speed overall, reducing average page load time by almost **25%** and enhancing device user experience.

Python Developer — *Pune, India*
Profitbooks Solutions — *Dec 2023 – Feb 2024*

- Designed and implemented backend modules in **Python** (Flask) for core financial features, improving system performance and **reducing processing time by 50%.**
- Developed database schemas and optimized **MySQL** queries for faster and more reliable data retrieval.
- Built **REST APIs** to integrate backend services with frontend interfaces, ensuring smooth user experiences.

AI & ML Engineer — *Pune, India*
AICTE NEAT — *Jan 2024 - Mar 2024*

- Integrated AI-ML model APIs with frontend applications to deliver real-time predictions.
- Deployed full-stack applications on **AWS** and **IBM** Cloud, ensuring scalability and cross-platform accessibility.
- Worked with both frontend and backend teams to deliver cohesive, user-focused solutions.

Projects

Large-Scale Research Document Processing & Semantic Search Pipeline

- Created and implemented an enterprise-level **research analysis platform** that uses **multi-level batching, hierarchical chunking, vector retrieval pipelines, LLM-based reasoning**, and structured metadata-driven insights to process and interpret **more than 1000+ page document.**
- Developed a scalable AI system that speeds up future **RAG-based queries** and literature reviews by **producing embeddings, executing topic-conditioned retrieval, cross-paper summarization, last-document analysis**, and keeping a **persistent vector store** of previously examined papers.

Personalized AI Newsletters

- Created a customized **AI-powered** newsletter system that employs end-to-end workflow automation and **LLMs** for automated news summarization, ranking, and domain-specific content creation.
- Stack: Python, OpenAI APIs, N8N automation, Google Apps Script, REST APIs

HireInsight: An Expertise Driven Interview Platform

- Built a full-stack application integrating **WebRTC** for live video interviews, interview analysis and automated report generation.
- Developed backend **APIs** (Node.js, Flask) and connected them with a **ReactJS** frontend for seamless interaction.
- Stack: ReactJS, Node.js, Flask, MongoDB, WebRTC, NLP.

Education

New Jersey Institute of Technology — Dec 2026 (Expected)
Master of Science - Computer Science

Smt. Kashibai Navale College of Engineering — June 2025
Bachelor of Engineering - Information Technology