Nishant Sharma

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About: Seeking opportunities in Applied AI Research, ML Engineering, and Software Development for full-time roles starting 2026.

Technical Skills

- **Programming Languages:** Python, Java, C++, JavaScript, TypeScript, MATLAB, Statistical Analysis
- **AI & Machine Learning:** PyTorch, TensorFlow, LangGraph, Transformers, CNNs/RNNs, GPT, CLIP, YOLOv8, RAG Architectures, LoRA Fine-tuning
- **Development & Operations:** React, Node.js, Django, Flask, FastAPI, SQL, Docker, Kubernetes, Jenkins, AWS, CI/CD Pipelines
- **Research & Analytics:** Jupyter, Git, LaTeX, Data Visualization, Experimental Design, MLflow, Prometheus, Grafana

Education

- **New York University Tandon School of Engineering** | New York, US — Sep 2024 - Expected May 2026
  Master of Science in Computer Engineering — GPA: 3.7
- **Dr. A.P.J. Abdul Kalam Technical University** | Delhi, India — Aug 2020 - Jun 2024
  Bachelor of Technology in Computer Science & Engineering — 1st Division with Distinction

Co-Founder and Lead Engineer | Ingelt Board | Delhi, India — Dec 2022 - Jul 2024

- Led a team of 6 engineers and launched SaaS Ed-Tech platform, scaling to **200+ enterprise clients** & **5,000+** active students.
- Engineered user portals (Student, Teacher, Admin) with **MERN & Django**, containerized via **Docker/Kubernetes**.
- Deployed on **AWS (EC2, RDS, S3)** with a **CI/CD pipeline (Jenkins, GitHub Actions)**, achieving **99.9% uptime** and faster deployments.

Software Engineering Intern | Macverin Technologies | Hybrid (UP, India) — Jul 2022 - Dec 2022

- Delivered **Dockerized CMS/CRM** platforms to 8 clients, improving their content management efficiency by 40%.
- Built client-facing analytics dashboards with **Python and JavaScript (Chart.js, etc.)** to visualize user behavior and sales data.
- Contributed to feature development, documentation, and system uptime using **Agile methodologies (Jira, Git)**.

Research

SmolSolver - Mathematical Reasoning with SLMs | In-Progress

- Developing Generator and Verifier Small Language Models (SLMs) fine-tuned on PRM800K and GSM8K datasets using Python.
- Focusing on step-by-step mathematical reasoning and evaluation.

Cross-Domain Vision - Image Reconstruction Benchmark |In-Progress

- Benchmarking SoTA models (CNNs, Transformers, Diffusion) on super-resolution, denoising, and inpainting using Python.
- Analyzing cross-domain robustness and failure patterns across natural scenes, text, astronomy, and art.

Projects

Agentic AI Research Framework |www.wort.nyc | In-Progress

- Engineered an **Agentic AI framework** with a **human-in-the-loop feature** for deep research tasks, utilizing **LangGraph** to automate web-based searches across academic, news, and video sources.
- Developed a **RAG (Retrieval-Augmented Generation)** based system incorporating **advanced reasoning methods (e.g, ToT, CoT)** to enhance accuracy and generate comprehensive, interactive reports from diverse web sources.
- Architecting a full-stack application with **React** to present findings in a user-friendly format, focusing on an intuitive UI for a seamless research experience.

Snap2Caption - ML Systems for Caption Generation | code | 2025

- Built a complete ML pipeline to generate Instagram-ready captions and hashtags from photos in under 2 seconds.
- Fine-tuned LLaVA-1.5/1.6 (7B) vision models using LoRA on 100k urban images for efficient, high-quality training.
- Engineered a production setup handling 300+ requests/hour, fully monitored with MLflow, Prometheus, and Grafana.
- Automated infrastructure provisioning on GPU clusters using Terraform.

Finassistant - RAG-based Financial Agent | live demo | code | 2025

- Created a conversational financial analysis tool that pulls real-time data from equity, crypto, and macro-APIs.
- Utilizes RAG to search financial news and answer portfolio/risk questions in natural language.
- Currently fine-tuning on sentiment-labeled datasets to "read between the lines" of earnings calls.

Teaching & Mentorship

Graduate Course Assistant, Machine Learning | NYU Tandon | Sep 2025 - Present

Mentoring 50+ graduate students on advanced machine learning concepts, providing hands-on support in implementing models like Perceptron, SVM, and Decision Trees.