Nishant Sharma

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Portfolio: nishant-ai.github.io/Portfolio
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About: Seeking a **Software Engineer, Applied AI Engineer, Data Science Engineer** role to build scalable and innovative solutions.

Technical Skills
- **Programming Languages:** Python, Java, C++, JavaScript, TypeScript, MATLAB, Statistical Analysis
- **AI & Machine Learning:** PyTorch, Tensorflow, LangGraph, Transformers, CNNs/RNNs, GPT, CLIP, YOLOv8
- **Development & Operations:** React, Node.js, Django, Flask, FastAPI, SQL Docker, Kubernetes, Jenkins, AWS, CI/CD
- **Research & Analytics:** Jupyter, Git, LaTeX, Data Visualization, Experimental Design, Research Methodologies

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
  Relevant Coursework: NLP, Advanced Computer Vision, Machine Learning, Deep Learning, ML Operations, OS, Internet Architecture, Finance, Real-time Embedded Systems.
- **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
  Leadership: Technical Head, CSI Student Chapter – Led 15-member engineering team, organized technical workshops

Professional Experience
Course Assistant | Graduate Machine Learning @ NYU Tandon CSE | New York, US   Sep 2025 - Present
- **Mentored 50+ graduate students** on advanced machine learning concepts, providing hands-on support in implementing models like **Perceptron, SVM, and Decision Trees**.
- Led weekly office hours to clarify course materials and resolve complex technical issues in practical assignments.
- Collaborated directly with the professor to refine curriculum and develop challenging coding assignments, ensuring alignment with real-world applications of machine learning algorithms.

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)**.

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.

A Comprehensive Study on Generalization in AI | kronosai.vercel.app   2024
- Designed a cost-effective AI framework to help small businesses overcome **"long-tail" AI challenges**, with a **published review and research paper.**
- Evaluated diverse models, from **Clustering/Regression** to **Transformer-based Sentiment Analysis**, to build a practical toolkit for low-data environments.
- Built and deployed a **full-stack demo application** using **React** and **Vercel** to showcase the framework's real-world utility and ease of implementation.

Extracurriculars
- I worked as Computer Science Subject Matter Expert at Chegg India.
- I solve 6 leetcode problems a week, with 200 problems solved yet, and 52 solutions posted with 4.6K+ Community Views.
- Tech Blogger at Medium. (https://neeshant.medium.com/)