

Kalpita Patel

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Dear Hiring Manager,

I am currently pursuing my **Master's** in Computer Engineering at **New York University** with a concentration in **Machine Learning**. Through a combination of hands-on industry internship and independent passion projects, I've built a comprehensive foundation in end-to-end, full stack software development and machine learning systems, from backend microservices with Java and Spring Boot to automated cloud infrastructure with Jenkins, Terraform and AWS, from crisp frontends using TypeScript, Next.js, and React to high-performance database systems using SQL, MongoDB.

My undergraduate concentration at **Purdue** was in Machine Intelligence with a minor in Mathematics, which sparked a deep interest in data-driven problem-solving and advanced algorithms. Now at **NYU**, I'm deepening my expertise through advanced coursework in Machine Learning, MLOps, and High Performance Machine Learning with CUDA. I am especially curious about practical applications of state-of-the-art AI. Recently, I completed a production-grade MLOps project featuring an end-to-end housing price prediction pipeline with XGBoost, MLflow experiment tracking, FastAPI backend, and automated AWS deployment via GitHub Actions CI/CD. I've also been actively building GenAI projects with Retrieval Augmented Generation (RAG) architectures using tools like Langchain. Moving forward, I'm exploring AI Agents, MCP, LLM architectures, and Deep Learning to stay at the forefront of AI-driven development.

Outside of coursework and coding, I run a [private Leetcode tutoring service](#), having solved over 2100 problems, which speaks to my passion for algorithms and problem-solving. I've always been deeply inquisitive, not just about the technology itself, but also about the business side: understanding how different domains operate, uncovering how software can unlock efficiency, and identifying where it can be leveraged for the greatest impact. I'm excited by roles where I can bridge the technical and business perspectives to help drive meaningful outcomes and build software 0 to 1.

I'm currently seeking internships or part-time roles where I can bring this curiosity, adaptability, and passion to real-world teams. If you're looking for someone who is rigorous, cracked and genuinely eager to learn and contribute, I'd love to connect and chat more about how I might fit in.

Best regards,
Kalpita Patel