**Dear Hiring Team,**

I am writing to express my interest in the Machine Learning Engineer role. I am currently pursuing a Master’s in Computational Data Science at Carnegie Mellon University, where I focus on building large-scale systems and applied machine learning solutions.

At CMU’s Language Technologies Institute, I worked on **DATE-LM**, a benchmark for evaluating data attribution methods in large language models. In this project, I helped design scalable evaluation pipelines that improve model interpretability, data quality, and safety—advancing the understanding of how training data shapes LLM behavior. This experience deepened my skills in model analysis, fine-tuning, and large-scale experimentation using frameworks like **PyTorch, vLLM, and MLflow**.

Earlier, in industry settings, I contributed to **ML system optimization and data pipeline engineering**, improving model inference speed and reliability in production. These experiences taught me how to bridge research with real-world deployment—balancing rigor, scalability, and performance.

I’m passionate about developing robust and efficient machine learning systems that drive meaningful applications. I would be excited to bring this mix of research depth and engineering experience to your team and contribute to building reliable, high-impact ML solutions.

Thank you for considering my application. I would welcome the opportunity to discuss how my background aligns with your needs.

Warm regards,  
**Niket Jain**

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