Mory Gharasuie March 23, 2025

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**Dear Hiring Team at SHEIN,**

I hope this message finds you well. I am writing to express my strong interest in the Machine Learning Engineer Intern position in Bellevue, WA. Currently pursuing a PhD in Computer Science at Old Dominion University, I have gained extensive experience in machine learning, data engineering, and software development—foundational skills that would allow me to contribute meaningfully to building an alert system for early failure detection on your Azure-based infrastructure.

During my time as a Research Assistant at Old Dominion University, I focused on improving the performance of machine learning and deep learning models for both image and tabular data. I have hands-on experience with Python libraries (scikit-learn, TensorFlow, PyTorch, HuggingFace) that is needed in this internship, as well as SQL and cloud platforms (AWS). While much of my cloud-based work has been based on educational purposes for course and research projects.

My recent projects underscore my enthusiasm for designing robust ML solutions. I created and managed a repository with various data science projects involving feature engineering, model training, and thorough performance evaluation, which parallels the need to develop and enhance ML models. I have also explored Large Language Models (LLMs) and Retrieval-Augmented Generation (RAG) extensively, aligning with your interest in applying affordable large language models to an alert system. This includes hands-on experimentation with embedding models, prompt engineering, and fine-tuning LLMs to improve downstream performance. In my Pricer (Agentic LLM) project, I developed an autonomous price estimation system that integrates ML models (Random Forest, SVM) with generative LLMs, showcasing my ability to engineer ensemble solutions for real-time predictions—skills that could be harnessed to build proactive alerts for system vulnerabilities.

In addition to my technical abilities, I have strong collaboration and communication skills developed through my academic and industry experiences. I worked closely with cross-functional teams—engineers, business stakeholders, and product teams—to deliver software and research outcomes. I believe that my blend of machine learning expertise, practical data engineering skills, and teamwork experience aligns well with the responsibilities of improving the ML pipeline, tracking online performance metrics, and collaborating with your engineering and product teams.

Thank you for considering my application. I am excited about the prospect of contributing to SHEIN’s forward-thinking efforts to build an alert system that safeguards production reliability. I look forward to the opportunity to further discuss how my experiences can help support your mission of minimizing downtime and advancing machine learning innovation.

Sincerely,

**Mory Gharasuie**