MACHINE LEARNING SCIENTIST SAMPLE

[FIRST NAME LAST NAME]

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April 21, 2025

Hiring Manager
[Startup Name]
[Street Address]
[City, State, Zip Code]

Dear [First Name Last Name],

I have been following [Startup Name]'s growth and approach to solving [industry-specific challenge, e.g., operational inefficiencies in health tech or user retention in fintech] with curiosity and admiration. As a data scientist with several years of industry experience and current graduate-level training in data science at George Washington University, I'm excited to apply for the Machine Learning Scientist role.

My work has consistently focused on bridging the gap between experimental modeling and scalable, production-ready solutions that improve core business metrics:

√ **End-to-End Model Deployment** – At [Company], I developed and deployed a churn prediction model using LightGBM and AWS SageMaker, helping reduce customer attrition by 11% over three quarters. I collaborated closely with product and engineering to integrate model output into the CRM system. This experience would translate well to the hands-on, cross-functional work expected at a startup like [Startup Name].

√ **Applied NLP and Deep Learning** – In a recent project, I fine-tuned a BERT-based classifier to tag and summarize customer support tickets, improving triage response times by 40%. I also helped build out a data labeling pipeline and evaluation framework, an approach that aligns with building ML tools that are both scalable and adaptable to product feedback loops.

√ **Startup-Oriented Thinking** – Before graduate school, I was part of a five-person data team at a fintech startup where we wore multiple hats, including building dashboards, writing production code, and responding quickly to shifting priorities. That environment taught me the importance of fast iteration, clean code, and clear communication with stakeholders, all of which I would bring to your growing team.

This position brings together my experience in applied machine learning, collaborative product development, and mission-driven problem solving. I look forward to connecting further to explore how I can support [Startup Name] as it scales and innovates.

Sincerely,

[Your First and Last Name]