



Adrian Bishop

Cover Letter

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Hiring Team
Northstar Vector Labs
Chicago, IL

Dear Hiring Team at Northstar Vector Labs,

I am excited to apply for the Machine Learning Engineer, Entry Level position at Northstar Vector Labs. With a 2026 B.S. in Computer Science and hands-on work in university research and capstone projects, I am ready to help build machine learning solutions that move from experiments into reliable systems.

My strongest fit is in **Python**-based model development, data preprocessing, and disciplined evaluation. I have built reusable **pandas** and **scikit-learn** pipelines, created features from real-world data, and compared models with cross-validation, precision, recall, F1 score, and confusion matrices. My work with PyTorch includes image classification, validation, error analysis, and checkpoint management.

I have put software engineering practices into each project through Git, modular code, pytest, **CI/CD** checks, Docker, and documented experiment settings. I have created scheduled **Airflow** workflows, stored experiment artifacts in **cloud services**, and added monitoring and retraining considerations to a forecasting service. These experiences have taught me to connect model quality with clear success metrics and practical operational needs.

Northstar Vector Labs interests me since this role centers on turning models into dependable systems and working closely with engineering teams to operationalize ML. I would value the chance to help develop **reproducible pipelines**, deploy models, track performance, and document practices that support sound technical decisions.

Thank you for considering my application. I would welcome the opportunity to discuss how my project and research experience can support Northstar Vector Labs.

Sincerely,

Adrian Bishop

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