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To whom it may concern,

My name is Michael He, and I am currently pursuing a Master's degree in Applied Data Science at the University of Victoria. With a background in computer science and hands-on experience in machine learning, I'm deeply motivated by the potential of data to solve real-world problems—especially where it intersects with fields like computer vision, system optimization, and decision automation.

During my undergraduate studies, I focused on deep learning and computer vision, completing a thesis on violence detection in video using convolutional neural networks. Since then, I've broadened my work to include data-centric applications. For example, I've built a Transformer-based model to forecast keyword trends from library borrowing data and modified a Faster R-CNN architecture to improve object detection across domains by aligning feature maps. These projects taught me not only how to apply advanced algorithms, but also how to work with real-world, often messy data and think critically about deployment.

What motivates me now is applying what I've learned in collaborative environments, where models meet systems, and theoretical tools are adapted to specific contexts. I'm especially excited by roles that require both modeling and engineering thinking—building data pipelines, designing practical evaluation metrics, or aligning models to end goals. I'm eager to keep learning, whether through academic research, industrial experience, or both.

Thank you for considering my application. I would be glad to discuss how my background and curiosity-driven approach could contribute to your team.

Sincerely,

Michael He

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