UNIVERSITY OF TORONTO
FACULTY OF APPLIED SCIENCE & ENGINEERING

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Dear Mr. Abrich,

My name is Micol Altomare and I am an undergraduate Engineering Science student at the University of Toronto majoring in Machine Intelligence and minoring in Business. **After attending the Hack the North hackathon last year and getting the opportunity to speak with Cohere's co-founder Ivan Zhang, I became deeply interested in LLMs and in building tangible solutions using NLP.** I am reaching out to you to express my interest in a summer intern position at MLDSAI Inc. and in contributing my skills and experiences as an ambitious ML engineer.

By annotating FAF and OCT images for early detection of macular degeneration at Tracery Ophthalmics Inc. and developing a CNN-based model to predict protein degradation rate for protein engineering at the Garton Lab (a synthetic biology lab at the University of Toronto) this summer, I understand the importance of research ethics and practices in order to rigorously make sound innovation in a field. The predictive model entailed a literature search for datasets, which led me to using a HeLa cell dataset of over 10 000 proteins, building the model in Python. In a similar manner to innovating in a field, I have honed my problem-solving skills and have gained confidence in building a technology in a fast-paced setting by creating a music recommendation platform that addresses the weaknesses of Spotify, YouTube Music and Apple's algorithms, inspired by my listening experiences as a pianist and music enthusiast. This initiative entailed building a recommendation algorithm in Python that took data from features of 2 million songs and used the Spotify API. My passion for technology extends throughout the year as I pursue hackathons, such as Hack the North where I used the Cohere (NLP-based) API and Google Maps API, and am currently building a medical calculator website with rheumatologist Dr. May Choi and her team of UWaterloo and MIT researchers. I am highly passionate about ML solutions and hope to contribute my skills to MLDSAI Inc. this summer.

I have enclosed my resume which summarizes my dedication to pursuing my wide range of interests. What I hope to convey through my application, above all, is my passionate and motivated character. I am a conceptual thinker, a generator of creative ideas and a self-starter. I eagerly welcome the opportunity to further demonstrate these qualities in person. Thank you for your time and consideration; I look forward to hearing from you.

Best regards,
Micol Altomare