Mory Gharasuie   Mar 12, 2025

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Coherent Corporation
5100 Patrick Henry Drive, Santa Clara, CA 95054

Dear Hiring Manager,

   I am thrilled to apply for the Machine Learning Research role at Coherent Corporation. As a dedicated research assistant currently pursuing my PhD degree at Old Dominion University, I have developed a solid foundation in advanced AI models, particularly leveraging frameworks like TensorFlow and PyTorch, making me an ideal candidate for this position.

   During my research assistantship, I have focused on improving machine learning and deep learning models, especially in classification problems involving complex datasets. My latest projects include significant work on semi-supervised learning techniques applied to tabular data, where I addressed class imbalance issues. I have also successfully developed a chatbot for medical applications that employs large language models, and completed other projects based on LLMs that are mentioned my resume. These experiences enhancing my practical understanding of generative AI applications. With this experience, I am equipped to contribute effectively to benchmarking and optimizing Mixture of Experts models and documenting research findings that align with Coherent's innovative goals. Also, I am familiar with knowledge distillation because of studying most known researches about knowledge distillation in deep learning domain and LLMs.

   I am excited about the opportunity to collaborate and share my insights in the fast-evolving field of generative AI at Coherent. Thank you for considering my application; I would love to discuss how my skills and research background can significantly benefit your team. I look forward to the possibility of contributing to your mission of driving AI-driven innovation.

Warm regards,
Mory Gharasuie