**Mory Gharasuie** Mar 12, 2025

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Dear Hiring Team at Cleerly Health,

I am writing to express my strong interest in the ML and Data **Intern** role at Cleerly. I am currently pursuing my PhD in Computer Science at Old Dominion University, with a focus on machine learning, especially in imbalance classification problems for supervised and semi-supervised learning. My background and ongoing research align closely with Cleerly’s mission to develop cutting-edge machine learning solutions in medical imaging—and I am enthusiastic about the possibility of contributing to your team.

Throughout my PhD and previous experiences, I have built a solid foundation in **Python**, **PyTorch**, **TensorFlow**, and various data science libraries. In particular, I have engaged in several projects where I have:

* **Medical/Healthcare Context**: Contributed to a “Medical Aid” project involving large language model (LLM)–based chatbots for healthcare data extraction and diagnosis support, which introduced me to the complexities of working with medically relevant data.
* **Machine Learning & Computer Vision**: Created or improved ML and DL models for image classification and tabular data analysis. My graduate research includes developing techniques to address **class imbalance** and **high-cardinality categorical features** in image and large tabular datasets. I have also explored **performance monitoring for exercise movements using mobile cameras**, focusing on real-time detection and accurate data capture.
* **Research & Publications**: Authored several publications in domains such as semi-supervised learning (SAWTAB: Smoothed Adaptive Weighting for Tabular Data) and real-time dynamic hand gesture recognition. These experiences underscore my capacity to explore novel approaches, implement prototypes, and effectively communicate results in both academic and applied settings.

In the job description, Cleerly emphasizes applying **machine learning/deep learning** in medical imaging—such as segmentation, detection, and classification—which strongly resonates with my interest in computer vision and experience processing real-world data. Further, my research assistantship at Old Dominion University has given me practical experience designing and evaluating ML pipelines, handling both labeled and unlabeled data, and improving model generalization.

Thank you for considering my application. I believe that my academic background, hands-on project experience, and passion for innovative work make fits me for this position. I would welcome the opportunity to discuss how my skills and experience can help advance Cleerly’s mission to transform heart disease diagnosis and treatment.

I look forward to hearing from you.

Sincerely,

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