**Mory Gharasuie** Mar 12, 2025

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Dear Hiring Team at Curai Health,

I am writing to express my strong interest in the AI Research Intern position. As a current graduate researcher at Old Dominion University with a deep focus on machine learning in tabular and image domain, I have been fortunate to participate in several research endeavors that align closely with Curai Health’s mission to improve access to care through AI-driven solutions.

Throughout my time as a Research Assistant at Old Dominion University, I have focused on machine learning, deep learning, and natural language processing. My work has covered everything from building and fine-tuning and representation learning, imbalance datasets, to addressing key challenges in semi-supervised learning and tabular data processing. Beside my research, I have been working on other projects. In one of my recent projects—an autonomous price estimation framework called **Pricer (Agentic LLM)**—I integrated retrieval-augmented generation (RAG) techniques, fine-tuned large language models using HuggingFace and PyTorch, and deployed an ensemble model that leveraged both traditional ML methods and advanced LLMs. This endeavor provided me with hands-on experience in orchestrating multiple ML components, improving model performance (notably reducing average prediction error), and designing user-centric interfaces.

Beyond this, my other projects in **Large Language Models**, **Data Science and Machine Learning**, and **Computer Vision** have solidified my proficiency in Python, PyTorch, TensorFlow, and accompanying libraries (Scikit-learn, Matplotlib, Pandas). I have worked on real-time analytics pipelines, integrated Docker and Git into my workflows, and thoroughly appreciate the importance of clear communication and collaboration—skills I honed as a Teaching Assistant and while contributing to software solutions during my tenure at Royan Communication Company. I also frequently engage with industry-standard practices such as prompt engineering, RAG approaches, and deploying models for practical applications.

Beyond the technical aspects, I am drawn to Curai Health’s mission of increasing healthcare accessibility, and I am excited about the possibility of my research ultimately benefiting patients on a large scale. The prospect of contributing to research that may lead to further publications resonates with my background and career aspirations. I am eager to collaborate with Curai’s experienced researchers and believe my skill set, growth mindset, and passion for healthcare-focused AI would make me a strong contributor to your team.

Thank you for your time and consideration. I look forward to discussing how my background aligns with your current and future research initiatives. Please feel free to contact me at any time.

Sincerely,

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