I am writing to express my keen interest in the Machine Learning Internship position recently advertised on VisionX. As a highly motivated individual with a strong foundation in computer science and a passion for artificial intelligence, I am confident that my skills and experience align perfectly with the requirements outlined in the job description.

**My Academic Background and Skills**

I have just finished my bachelors in Artificial Intelligence with a specific focus on machine learning, Natural language processing, computer vision and generative ai. This academic journey has equipped me with a solid understanding of machine learning concepts, including Supervised learning (SVMs, Random Forests), NLP (Text Classification, NER), and deep learning architectures (CNNs, RNNs). Additionally, I have honed my programming skills in Python, R, C++.

**My Project Experience**

I possess experience in developing diverse machine learning applications. I built a chatbot utilizing the RAG pipeline and large language models (LLMs) to facilitate tasks related to PDF documents. Additionally, I have experience in computer vision, having developed a system for real-time number plate detection in video streams. Furthermore, I have explored Generative Adversarial Networks (GANs) for image generation and captioning tasks.

**My Eagerness to Learn and Contribute**

I am a highly motivated individual with a strong desire to learn and contribute to the field of machine learning. I possess a collaborative spirit that allows me to work effectively within a team environment.

I have attached my resume for your review, which further details my qualifications. Thank you for your time and consideration. I look forward to the opportunity to discuss my candidacy with you in more detail.

**Sincerely,**

**Muhammad Hamza Jadoon**