

AKSHAY PARATE

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Hiring Manager

Lamini AI

Dear Hiring Manager,

I am excited to apply for the ML Engineering Intern position at Lamini AI, as advertised. With a solid background in machine learning and natural language processing (NLP), coupled with practical experience in developing and fine-tuning advanced models, I am eager to contribute to your innovative team.

Key Experiences Relevant to Lamini AI:

- NLP Development and Enhancement:** I have hands-on experience in using and fine-tuning the BART pretrained model for various applications. My work included implementing retrieval-augmentation and factual corrections to significantly improve model accuracy and reduce hallucinations, ensuring the generation of reliable and up-to-date information.
- Performance and Quality Measurement:** At LTIMindtree, I developed Python scripts for real-time server load monitoring and implemented DevOps automation to enhance project delivery capabilities. This experience honed my ability to build tools and evaluation frameworks to objectively measure model performance, quality, and risk—areas such as bias detection and toxicity analysis align with my interests and skills.
- Advanced Model Training Techniques:** In my recent projects, I integrated feedback loops to learn from errors and applied model calibration techniques to minimize hallucinations. Additionally, I explored novel optimization techniques like self-supervised learning and multi-task training, contributing to our model training pipeline.
- Integration with Deep Learning Models:** My personal assistant AI project demonstrates my ability to integrate enhanced models with existing deep learning frameworks, including financial sentiment analysis and trading strategies. This holistic approach ensures robust and cohesive AI systems.

Academic and Technical Background:

- **Master's in Data Science** from Stevens Institute of Technology, with coursework in Applied Machine Learning, Data Analysis, and NLP.
- **Certification in Blockchain Technology** from IIIT Bangalore.
- Proficiency in Python, PyTorch, TensorFlow, and experience with deep learning algorithms and neural network architectures.

I am passionate about AI safety, ethics, and oversight, continuously seeking to push the boundaries of what is possible in machine learning. My research mindset and ability to clearly communicate technical work are strengths that I believe will be invaluable at Lamini AI.

I am excited about the opportunity to work at the forefront of ML with top engineers at Lamini AI. I am confident that my skills and experiences align well with the responsibilities of this role, and I look forward to the possibility of contributing to your team.

Thank you for considering my application. I look forward to discussing how I can contribute to Lamini AI's success.

Sincerely,

Akshay Parate

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