

[Your Full Name]

[Your Address]

[Phone Number]

[Email Address]

[LinkedIn or Portfolio URL]

[Date]

[Principal Investigator Name]

[Department Name]

[University or Lab Name]

[Institution Address]

Dear Dr. [PI Last Name],

I am writing to express my strong interest in the Machine Learning Research Assistant position within the [Lab Name/Project Name] as advertised on [Platform]. As a [Your Current Status, e.g., Junior CS Major] at [Your University] with a specialized focus on [Sub-field, e.g., Computer Vision or NLP], I am eager to contribute to your ongoing work in [Mention specific research area of the lab].

My academic background has provided me with a solid foundation in [Key Skills, e.g., Linear Algebra, Probability, and Optimization]. Specifically, I have developed proficiency in [Tools/Frameworks, e.g., PyTorch, TensorFlow, or JAX] through projects such as [Brief Project Name]. In that project, I implemented [Specific Algorithm/Model] to achieve [Quantitative Result], which honed my ability to preprocess complex datasets and conduct rigorous hyperparameter tuning.

Your recent publication on [Title or Topic of Lab's Paper] particularly resonated with me because [Reason for interest]. I am particularly interested in exploring how [Specific ML technique] can be applied to solve [Specific Problem the lab works on], and I am confident that my experience with [Specific Skill, e.g., distributed training or data augmentation] would be an asset to your research team.

I am highly motivated to contribute to the high-impact research produced by [Lab Name] and would welcome the opportunity to discuss how my technical skills and research interests align with your current goals. Thank you for your time and consideration.

Sincerely,

[Your Signature]

[Your Printed Name]