# Divit Rawal

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Dear Hiring Manager,

I am writing to express my enthusiastic interest in the Physical Sciences Internship at Los Alamos National Laboratory (LANL). As an institution renowned for its cutting-edge research and contributions to the field of physics, LANL offers a unique opportunity for me to further develop my skills and knowledge in this dynamic field.

I am a freshman at UC Berkeley, pursuing a degree in Physics and Mathematics, and I am deeply passionate about the intersection of physics and computational science. I believe that my academic background and practical experience make me a strong candidate for this internship.

My previous research experience and proficiency in computational methods have prepared me well for this role. While working as a researcher in Dr. Daniel Whiteson's lab at UC Irvine, I focused on developing deep learning techniques to address data scarcity challenges in high-momentum collisions and analyzed complex data from particle collisions. Collaborating with postdoctoral researchers, I honed my data analysis skills, becoming adept at extracting meaningful insights from intricate datasets. This experience enhanced my ability to clean noisy data effectively, ensuring accurate trend extraction. Additionally, I gained valuable insights into research methodologies.

I have also completed the IBM Professional Certification in Machine Learning, where I acquired a solid theoretical foundation in data analysis and machine learning algorithms. I put this knowledge into practice in a deep-learning-based recommender system capstone project, using real-world datasets and mastering tools like Pandas, NumPy, and SciKit-Learn.

During my most recent role with Amazon, I had the privilege of being selected as one of 240 global contributors to the OpenSearch Project, an open-source initiative for real-time data storage, access, and analysis. Under the guidance of Amazon Data Engineers, I wrote unit tests and developed machine learning algorithms with far-reaching impact, serving millions of users worldwide.

I am a highly motivated and results-driven individual with a strong dedication to physics and data analysis. My enthusiasm for delving into the intricacies of physics aligns perfectly with the opportunity offered by LANL. I am excited about the chance to work with the innovative minds at LANL and contribute to advancements in the field. I am eager to apply my skills to complex challenges and push the boundaries of physics.

Thank you for considering my application. I look forward to the possibility of contributing to LANL's groundbreaking work and advancing the field of physics.

Sincerely,
Divit Rawal