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Dear Hiring Manager at Cold Spring Harbor Laboratory,

I am overjoyed to have found the opportunity to be a NeuroAI Summer Intern this summer at Cold Spring Harbor Laboratory. As someone who previously conducted machine learning research at CSHL under Dr. Peter Koo, I would love to continue my passion for learning in AI as a summer intern. I am currently an undergraduate junior studying Computer Science and Applied Math at Stony Brook University. I am certain that my previous experience combined with my ardor for the field of artificial intelligence will make me a valuable addition as an intern this summer at Cold Spring Harbor Laboratory.

Last year, I worked as a research assistant at CSHL on a project involved with distilling knowledge from a teacher network to a student network. During this two semester long project, I gained ample experience in using various libraries in Python such as Tensorflow, Keras, Numpy, and Pandas. My project, advised by Dr. Rohit Tripathy, was able to provide valuable insights into the interpretability of student networks trained by teacher networks in knowledge distillation. Although we did not get the exact results we wanted, I learned how knowledge distillation could be used as a regularization technique. As a NeuroAI intern, I believe this would be a great project direction to start from and be refocused to be applied to Neuroscience.

I am also currently conducting machine learning research under Dr. Zhaozheng Yin at Stony Brook University. My project with Dr. Yin involves solving the problem of learning with noisy labels. This project is in its early stages but it is very applicable to the real world as noisy data must always be addressed. This could be another direction for a project for me as a NeuroAI intern this summer. There must be ample amounts of data in Neuroscience AI training, but some of this data could potentially be mislabeled or noisy, making it a worthwhile project for me to explore.

Neuroscience has always been a subject of great interest to me. As a senior in high school, I took an AP Psychology course that introduced me to the processes of the nervous system that use neurons to communicate information throughout the body. Combining this understanding with my passion for computer science fascinates me. I chose to attend Stony Brook University for its strong computer science program in order to develop the necessary skills to pursue a future in applying modern AI to neuroscience.

I am looking forward to hearing back from you to discuss my qualifications further. I am available to meet whenever it is most convenient for you. I appreciate your review of my application for this position.

Thank you for your time and consideration.

Sincerely,

Roshan Kenia