Dear Professor xx:

I am Sizhe Li, a computer engineering master in Northwestern University. I will complete my degree in 2021 spring. Now I plan to pursue my doctoral degree in USA.

As I noticed from your personal page in the XX Website, your recent research involves xx, which are my current and future interests. So I would like to ask whether your lab recruits students this summer. I really want to participate in your research group and contribute to the project you are working for.

I am including a brief summary of my past research work below.

Undergraduate:

1. Follow supervisor to do the neural network device property research and learn to realize backward propagation network.

2. Experience in a co-founded lab to do the large-scale data process. Apply the machine learning algorithm to analyze kinds of properties and manufacture conditions of testing materials, trying to find the best data features to classify those material performances.

3. Experience in National-Astronomical Observatories of China to help do the data processing.

Download the file packages from the FAST telescope, applying dimension reducing methods, data compression skills and classification machine learning methods.

Graduate:

1. Animal picture features identification and star face recognition project based on Deep learning.

2. PageRank algorithms used in natural language processing, to extract and keywords from some short stories or tweets.

3. Robust Optimization (Federated Learning) combined with machine learning, following Hai Zhou professor.

4. Coronavirus infection prediction project base on traditional machine learning and deep learning methodologies, followed by Aggelos K. Katsaggelos.

For the programming languages, I have mastered the basic concept and usage of JAVA, Python, and MATLAB. I have also mastered the thinking and basic usage of the concrete algorithms in Machine Learning, including traditional ML methods: SVM, Random Forest, PCA, Decision Tree, etc. and Neural Network: BP, DNN, CNN. If I can be one of the members of your research group, I can quickly set up and do not need much training.

May I ask if you would accept new students in next year? If you have available positions for Ph.D student next year and interest in me, please feel to contact me. I am willing to provide more information about myself. I am in Evanston not abroad.

Best Regards,

Sincerely

Sizhe Li