

ANIL KAG

  anilkag@bu.edu  anilkagak2.github.io  +1-857-498-9294  Boston, USA

Dear Recruitment Team,

I am writing to apply for the position of Research Scientist. I am a fifth-year Doctoral Candidate in the Electrical and Computer Engineering Department at Boston University. Under the supervision of Prof. Venkatesh Saligrama, I work on efficient neural architectures and resource-constrained learning. I will be graduating in March 2023. I believe I will be a good fit for this position due to my research work and industrial experience in Machine Learning (ML).

During the course of my doctoral studies, I have worked on several key research problems in the area of efficient inference in deep learning. I have designed efficient neural architectures that yield significant computational savings compared to state-of-the-art solutions without any loss in performance. It includes both sequential as well as convolutional architectures. Additionally, I have designed models that account for input hardness and adaptively allocate resources during inference. I have applied these models to learning with abstention, dynamic neural networks, selective knowledge distillation, resource-constrained learning, etc. These works have been published in ML conferences such as ICML, ICLR, NeurIPS, CVPR, and AISTATS. In this period, I have actively collaborated with researchers at ARM, Microsoft Research, and Google Research. Finally, I have strengthened my ML knowledge through rigorous theoretical coursework and seminars.

In addition to my doctoral work, I have worked at Microsoft Research (MSR) in various roles. While interning at MSR Redmond, I developed and deployed TinyML models for Phish webpage detection. Before this, I was a Research Fellow at MSR India, responsible for developing and deploying Extreme Classification models for the Bing Ads Recommendation pipeline. It resulted in significant performance improvements in click-through rates and revenue. Finally, I have also worked as a Software Engineer at Microsoft India.

I have always been passionate about efficient machine learning on a large scale, and I believe my unique academic and industrial background makes me a good fit for a research position in your team. I appreciate being considered for this role and hope to hear back from you soon.

Kind Regards,

Anil Kag
Ph.D. Candidate
ECE Department
Boston University