

# Cover Letter

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I am a masters student in Electrical & Computer Engineering Department at Johns Hopkins University(JHU). I'm interested in working on projects that create impact using ML research. I have prior experience in deep learning-based computer vision and I'm excited to take my talents to the industry starting this Fall 2022.

Over my 5+ years experience of working as a deep learning researcher, I have worked on a myriad of projects pertaining to image analysis and biometrics with a focus on face recognition. Although unidirectional, these skills are directly transferable to any domain which involve working with multitudes of data and apply core concepts of machine learning and artificial intelligence.

Some of the professional accomplishments that I'm most proud of are:

- Receiving graduate student fellowship by the ECE department, JHU to pursue graduate studies.
- Obtaining a grade of A+ in Machine Learning for Signal Processing, (a dominantly programming heavy course).
- Teaching students ( at graduate/undergraduate level) for Compressed Sensing, Computer Vision and Systems Management course(s).
- Presenting research work conducted as part of my undergraduate project at international biometrics conference BTAS, 2018.
- Receiving honorary letter from Ministry of Human Resource, India for excelling in national board examinations.
- Recipient of bronze medal award at local mathematics olympiad during high school.

My motto is to explore how to best implement and deploy high performance computing systems in real world applications and reciprocate my learnings to others. In an age where Peta/Tera-byte is the new norm of data scale (e.g. large scientific discoveries, daily financial transactions), I believe we as an engineering community could benefit from leveraging the prowess offered by ML and AI models.

The idea of collaborating on big code bases in a conducive environment, understanding the systems side of high performance machines and realizing its correlations with direct societal implications, really excites me. I am thus looking forward to acquire the skills required to be a part of such large-scale projects.

Further, another dimension of AI that I'm deeply passionate about are the sub-domain(s) of Trustworthy AI & AI for social good. With AI in the current state of technology taking a ubiquitous approach, I believe it's important to understand the inner workings as to how the model came at the particular decision. In doing so we address two challenges, mainly a) alleviating the black box repertoire around AI models, & b) improve on how these models interact with humans.

Therefore, along with the motivation to work in such environments, my current skill set in: writing proficient code([github](#)), prior research experience([research](#)), technical writing capability([papers](#)) and excellent academic record([highlights](#)), gives me a head start to pursue opportunities in ML/AI domain.

If this is something that resonates and relate to you, please feel free to reach out via email above for any interesting opportunity. Thank you for taking time to read along. Have a great day!