

7 March 2023

Dear Hiring Manager, University Recruiter, Samsung,

I was hoping Samsung would soon post a job opening related to their research on Artificial Intelligence and Deep Learning. When I saw the job posting, I knew I had to apply for it!

One of my motivations for pursuing a master's was to get into Computer Vision and Deep Learning. I used to follow its latest innovations, be it by Meta/Google or, recently, Open AI. As part of my Masters at UCSD, I took an in-depth Computer Vision course where I learned a lot about the logic behind the basics of Computer vision and built existing algorithms such as 3D reconstruction from scratch.

Further, Interning the past 2 summers, I have developed robust machine learning, data analysis, and database management skills along with my strong problem-solving skills, project management, and ability to work in teams, making me an ideal candidate to become part of "controlled chaos." In my previous internship at LeadingIndia.ai, I worked on a Vaccine Prediction model on the H1N1 and seasonal flu vaccines to accurately predict the trends of the public acceptance rate (41%) of the Covid-19 vaccine. My team and I were able to publish a research paper on the topic and wrote a blog showcasing the correlation between the two pandemics.

Additionally, as part of the Deep Learning course, I got familiar with the theory behind LSTMs and Transformers' attention mechanism concerning natural language generation. I implemented this knowledge in my project regarding image captioning. I used PyTorch to develop an architecture that used a pre-trained ResNet50 architecture as an encoder with an embedding and LSTM block at the decoder side. Furthermore, I further enhanced my deep learning knowledge by implementing a Deep-Q Learning-based project inspired by AWS's Deep Racer competition, wherein the car learns autonomous driving via reinforcement strategies.

I am confident that my skills and experience make me a strong candidate to be a team member, and I am eager to grow and develop while learning from the world-class leaders at Samsung. Thank you for your time and consideration. I would appreciate the chance to discuss further my qualifications and how I can contribute to work that makes a Difference! Please feel free to contact me at your convenience by email (jjhaveri@ucsd.edu) or by telephone (+1 858 214 9192).

Sincerely,

Jay Jhaveri