

Krishna Vijay Samayamantri

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To

Human Resources,

Massachusetts Institute of Technology

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Hi!

I am Krishna Vijay. I recently graduated from Cal State LA with Master's in Electrical Engineering with specialization in Biomedical Engineering. I found the job advertisement, "Research Scientist, Health 0.0 at MIT Media Lab" on the Media Lab website, and thought I would be a good fit for it.

You are looking for someone with research capabilities in biomedical engineering and machine learning with zeal in solving grand challenges in health. I have worked on various research and development projects in biomedical engineering since 2012. I have worked in diagnostics using biomedical signals such as, ECG, EEG and EMG. I have built a prototype medical imaging device for the LA Biohack Hackathon, called Automated IR Imaging of Broken Bones (AIRiBnB) which performs triage to detect and categorize injuries based on inflammation. My team got 3rd prize for this project. For my Master's thesis, I built a brain machine interface algorithm that detects whether subject has performed a left-hand or right-hand reach, based on their EEG and an SVM classifier. In 2013, I have built India's first mind-controlled wheelchair using the Emotiv BCI device and an electric wheelchair. In the same year, I published an IEEE paper, where patient ECG can be sorted into arrhythmic and normal ECG. Furthermore, we found out that each patient's ECG is unique and that can be used as a bio-metric identifier.

I have also completed the short program Advances in Imaging and AI course offered at the Media Lab.

Furthermore, I have also tried to build my own startup in online learning and home automation. After building prototypes, I failed to launch it in market.

As a lifelong learner and an entrepreneur, I am able to consider all the possible scenarios and tailor my approach towards the best results. This would make me a valuable addition to your company. Please find my application and resume attached. I look forward to hearing from you.

Thanks in advance!

**Krishna Vijay Samayamantri**

*Attachment: CV*