Greetings! 👋  
I’m Md Moin Uddin Atique, a biomedical engineer with a Ph.D. from the University of Houston, specializing in data science, sensor development, machine learning, statistical analysis, and neuroscience. My expertise lies in algorithm development and biomarker extraction from wearable sensor data. I have developed AI-driven models to analyze complex physiological signals such as Single Unit activity, EMG, ECG, PPG, BCG, Accelerometer and have built scalable data pipelines that integrate multimodal biomedical datasets for end-to-end human–machine interface systems.

In addition, I have hands-on experience designing deep learning models—particularly convolutional neural networks (CNNs)—for image and video processing tasks in computer vision. I am also proficient in cloud-based data analysis, with experience using platforms such as Microsoft Azure, AWS, and GitHub for collaborative research and development.

Throughout my career, I’ve worked closely with interdisciplinary teams to translate raw biomedical data into actionable insights. My research has been published in multiple domains, and I remain committed to applying data-driven approaches to address meaningful challenges in healthcare.

Above all, I am passionate about the research and development of biomedical systems that improve lives. I am dedicated, hardworking, and always eager to contribute to impactful innovations.

Education  
Ph.D. in Biomedical Engineering (Neuroscience) University of Houston  
M.S. in Biomedical Physics and Technology University of Dhaka  
B.S. in Applied Physics, Electronics & Communication Engineering University of Dhaka

Experience  
Data Science Engineer, Samsung Research America Oct 2024 – Dec 2024  
Postdoctoral Associate, Texas Children’s Hospital Sept 2023 – Sept 2024  
Senior Scientist, Abbott Laboratories Oct 2022 – Mar 2023  
Postdoctoral Associate, Baylor College of Medicine Aug 2021 – Sept 2022  
Research Assistant, University of Houston Aug 2016 – May 2021  
Research Assistant, University of Dhaka Jun 2015 – Jul 2016

Research Interests  
Machine Learning, Data Science, Signal Processing, Wearable, Sensors, Computer Vision, Neuroscience, Biomedical Engineering

Current Affiliation  
Self (I am actively looking for new position).

Resume  
Download my full resume here.