January 08, 2024

LETTER OF RECOMMENDATION

I am Prof. Dr. Md. Shamim Akhter, passionate about leveraging technology to solve practical problems, with a focus on high-performance computing, artificial intelligence, and data-driven research. My journey spans over two decades, working with institutions like Ahsanullah University of Science and Technology, Asian Institute of Technology, and Tokyo Institute of Technology. Whether it's optimizing agricultural models, improving urban traffic systems, or leveraging data analytics to empower decision-making systems, my goal has always been to bridge the gap between theoretical research and real-world applications, driving innovation and societal impact through technology. I am currently working as a professor of Computer Science & Engineering at Ahsanullah University of Science and Technology (AUST). It is a pleasure to write this letter of recommendation for Shuvashis Sarker. I had the privilege of teaching Shuvashis Sarker in the Undergraduate Program at Ahsanullah University of Science and Technology (AUST) in the **2023-2024** academic session, where I served as her class teacher, thesis supervisor, and mentor. I have become deeply familiar **with** Shuvashis Sarker**'s** academic strengths and career goals. From this vantage point, I am well-positioned to provide an informed perspective on her qualifications and her aptness for spearheading the way in her future career endeavors.

Shuvashis Sarker graduated with a B.Sc. in Computer Science and Engineering in January 2024. In addition to his good academic standing (GPA of 3.53 on a scale of 4.00), he possesses outstanding research abilities in the fields of artificial intelligence and machine learning. It was in the fall of 2022 when I first met Shuvashis in my Artificial Intelligence (CSE3207) course. In that course, I found Shuvashis attentive, devoted to his class work, and always curious to learn more. **He** was very eager to learn more, and always tried to transform **his** theoretical understanding into practical knowledge, and I was quite impressed by the depth of his questions. **His** works were short, snappy, and appealing to read.

We reconnected during his undergraduate research project. As his research supervisor, I kept a careful eye on everything he did. He showed strong interpersonal and professional ethics during his time in the research. He was working on the project in a team with other people. He thought him to be quite sociable and that he got along well with the other members. I paid more attention to him when he was researching the SMART system to detect and classify heart sound signals. In addition, he conducted several types of research independently and prepared manuscripts. He was highly trained and skilled with machine learning models and embedded programming studies. He demonstrated the ability- to articulate and express his thoughts clearly with meaningful evidence collected from different analytical observations of a given problem. Besides, he guided second and third-year undergraduate students and trained them to learn computational software/research tools/problems. His demonstration skills were observed and noted as much higher than average. His remarkable capacity to perform under extreme pressure is one trait I have consistently observed, setting her apart from his peers. He unfailingly meets deadlines and delivers results of the best quality, no matter the complexity of the task. This quality, combined with his unwavering dedication, has been a driving force behind his success in every responsibility he has undertaken.

In summary, Shuvashis is an intelligent, diligent, and very hard-working person who will make important contributions to any study he undertakes. His outstanding research abilities, stellar academic record, and unwavering dedication to greatness make him an outstanding prospect for graduate study, and I heartily endorse him for his chosen area. In addition, I heartily endorse him for a TA/RA post in your

program and any funding that could enable him to continue his education at your institution. If you have further queries, I would be happy to answer them.

Respectfully,

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