

Recommendation for Ayesha Binte Mostofa

I am pleased to write this letter of recommendation for Ayesha, who is applying to your esteemed institution for graduate studies. I have supervised Ayesha in research for over a year and a half, in addition to being her course instructor. Throughout our research journey, I can confidently attest to Ayesha's exceptional work ethic, critical thinking abilities, outstanding technical skills and cooperative mindset. I have no doubt that, if given the opportunity, she would be a valuable addition to your prestigious university as a graduate student.

Our research focused on automating code review activities using Large Language Models. Initially, the project scope was unclear, and I suggested several directions for exploration. Ayesha thoroughly explored each option and conducted a comprehensive, systematic literature review every week, which helped to refine the project's scope. Once the project's direction was established, we constructed a static call graph and code summary extraction methods using Abstract Syntax Trees, where Ayesha played a key role in implementing the codebase. Ayesha contributed significantly to refining our prompts through rigorous experimentation, using few-shot prompting with closed-source LLMs and supervised fine-tuning with open-source LLMs. Notably, for our human evaluation study, Ayesha efficiently designed and implemented the front end of the web portal. Moreover, we have submitted our work to a reputable conference, and I was particularly amazed by the quality of her academic writing, which reflects her keen attention to detail and strong organizational abilities. Additionally, she consistently sought feedback from me and promptly incorporated my suggestions, showing her commitment to continuous improvement.

Before joining my research team in 2023, Ayesha was a student in five of my courses: Software Engineering, Information System Design, their corresponding sessional courses, and Software Development. Additionally, I supervised her on two significant projects in Information System Design and Software Development, during which she successfully developed a mobile application and a web application. Her work was well-organized, incorporating detailed diagrams to enhance both design and functionality. Ayesha demonstrated effective team leadership in project management. She consistently met deadlines, reflecting her reliability and responsibility as a candidate. Academically, she earned top grades and was highly engaged in class, often volunteering to support classmates by organizing course materials, highlighting her collaborative nature.

BUET is the top-ranked engineering university in Bangladesh and is among the top 100 in Asia in computer science research. Since Ayesha is a graduate of BUET, she is undoubtedly one of the best in the country. The medium of instruction at BUET is English, and Ayesha is proficient in written and spoken English. She is a highly goal-oriented individual, consistently striving for excellence in all her endeavors. Despite studying among the best and brightest students of the

country in a highly competitive class, she maintained an outstanding academic record during her final two years of undergraduate studies, earning the prestigious Dean's List Scholarship for academic excellence. Additionally, she participated in technical competitions, which I believe contributed significantly to her exceptional technical skill set. Immediately after graduation, Ayesha joined the Department of Computer Science at the Canadian University of Bangladesh as a lecturer. I believe she has strong teaching abilities. Based on my experiences with Ayesha, I can confidently say that she is deeply committed to her work and consistently improving herself. I strongly recommend Ayesha for admission into the program of her choice at your esteemed university.

Dr. Anindya Iqbal,
Professor,
Dept. of Computer Science & Engineering,
Bangladesh University of Engineering & Technology,
Dhaka-1000, Bangladesh