

Bangladesh's Journey to the Future: How Ready Is the Nation for Brain-Computer Interface

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Abstract

This study investigates how ready the people of Bangladesh are for Brain-Computer Interface (BCI) technology. It looks at factors such as public awareness, interest, perceived benefits, concerns, and cultural influences. The study emphasizes the importance of education, regulations, and ethical considerations for BCI's successful integration. This study examines the readiness of the people of Bangladesh in regard to Brain Computer Interface (BCI) technology focusing on areas such as awareness, interest, possible benefits, concerns as well as cultural issues. To collect data for this research, we utilized Microsoft Forms. The research design followed a quantitative approach. According to the survey, it is expected that public education campaigns and targeted awareness initiatives will help overcome the limited understanding of brain-computer interfaces (BCI) and promote a positive view of their adoption. By recognizing key concerns such as privacy, data security, and safety, the study forecasts the creation of strong regulatory measures to address these issues. Additionally, highlighting the medical advantages of BCI is expected to boost public acceptance, even when considering cultural and religious perspectives. Ultimately, a balanced strategy that includes government regulation and ethical policy frameworks is seen as essential for the smooth and responsible integration of BCI into the society of Bangladesh. The study calls for public education, ethical considerations, and policy frameworks to ensure the successful integration of BCI technology into Bangladesh's socio-cultural landscape.

Keywords:

Brain-Computer Interface (BCI), Public Awareness and Education, Cultural and Religious Factors, Privacy and Data Security, Regulatory and Ethical Policies.

Biography:

Md. Farhat Anjam is a student pursuing a Bachelor of Science in Computer Science and Engineering (CSE) at American International University-Bangladesh. His academic interests focus on Artificial Intelligence and Machine Learning. Farhat has worked on several mini projects, including creating interactive web games and visualizations of

some sorting algorithms using HTML, CSS, and JavaScript. These projects demonstrate his skills in web development and algorithms. Following graduation, he aspires to further his studies by pursuing a master's degree in Artificial Intelligence.