

# **Impact of AI in High School Studies in Dhaka**

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## **Abstract**

The study embarked on its journey to evaluate how AI usage affects the education of high schools in Dhaka city. The main purpose of this research was to identify whether AI usage has any impact on students' academic performance and, if so, how their relationship behaves. The study adapted a quantitative research method. Data were collected from ## participants, including ## students, ## parents, and ## teachers, through an online structured survey. The analysis of those data revealed that students who used AI for their studies were seeing improvement in their grades and learning abilities. Parents have also reported witnessing a fair amount of the impact of AI on students, and most of the teachers observed the students utilizing AI, doing much better than those who don't. The result concludes that AI has a potential positive impact on students' academics.

**Keywords:** Artificial Intelligence (AI), Educational Technology, Students' Performance

## **1. Introduction**

Throughout the history of AI, many studies have noted various benefits of incorporating AI in high schools, such as personalized, tailored learning, which boosts student productivity, and also automation of administrative tasks, which allows teachers to spend more time with their students, allowing for more learning interactions. Studies also note successful applications that brought positive results, such as ##, which modulates instructional material based on the learner's current knowledge, and Pounce, a chatbot designed to preemptively identify dropout risks, vividly illustrate these benefits. AI has also provided students with an error learning experience, which allows students to reflect on their mistakes and receive direct feedback from AI. However, some studies criticize AI and show potential concerns about it. Critics argue that the integration