

AI Tools Adaptation on Student Performance in the Higher Education Industry of Sri Lanka: A Systematic Review

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The main purpose of this study is to identify the use of AI tools in promoting student performance in higher education institutions. This study followed a systematic literature review method. A total of 101 articles were selected for the final analysis process. These were followed the inclusion criteria decided by the researcher. Four themes were developed based on the research questions. First theme was the impact of AI tools on student performance in higher education institutes. According to analysis, it was identified that use of AI tools can enhance the learning process and student engagement which can improve the student performance. Main AI tools used in higher education were Chat GPT, and Gen AI which was identified under the analysis of second theme. According to the analysis, the main Perceived Benefits of using AI were effective learning and teaching process, and personalized learning facilities. However, there were several ethical issues in universities in using AI for education (Theme 03). Further, it was highlighted that positive attitudes and investment in infrastructure is crucial for implementing AI in higher education. Based on the findings, it was suggested that the Sri Lankan policymakers and university administrations should develop policies to promote ethical use AI tools (ChatGPT) to promote student performance. Providing training sessions for both students and educators on effectively using Chat GPT and Gen AI for research, collaboration, and assignment assistance can further enhance learning outcomes. In future, researchers can incorporate demographic factors and socio economic to identify its impact on use of AI tools in education.

Keywords: AI in education, Chat GPT, Ethical use of AI, Gen AI, Higher education, Student performance

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