AI Writing Tool Utilization, Academic Writing Skills and Students' Behavioral Intention: Inputs to Institutional AI Academic Policy

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Abstract

The study employed a descriptive-correlation research to examine the role of Artificial Intelligence (AI) writing tools utilization, academic writing skills, and the student's behavioral among 84 Grade 12 students of Senior High School in a private institution at Pasay City. Anchored in the Technology Acceptance Model (TAM), the study is determined to provide empirical evidence to craft an AI Institutional Academic Policy. Results of the study revealed that there is a high utilization rate of 95% using AI writing tools either sometimes or often. It also revealed that ChatGPT is the leading AI writing tool platform (90.48%), followed by Grammarly and Quillbot (51.19%). The students' reasons for primarily using AI writing tools are for brainstorming and outlining (84.52%) and grammar correction (73.81%). The statistical analysis came up with a significant improvement in the writing performance, with a mean score progressing from "developing" to 'advanced" level ($p<0.001$) after the AI-assisted writing. However, it also showed no significant predictive power between the frequency of AI writing tool utilization and final post writing test scores ($p=0.30$), suggesting that AI rather serves as a "performance scaffold" rather than a direct indicator of long-term proficiency. In addition, frequency of current utilization did not significantly predict behavioral intention for future use, that indicates adoption may be driven by external trends or usability. With these findings, the study inputs an AI academic policy including: 1.) establishment of an AI Ethics board, 2.) formalization of "authorized scaffolding" for brainstorming and outlining, 3.) requiring mandatory AI disclosure statements; and lastly 4.) shifting to assessment-based reports to maintain critical thinking. This balances integration of AI benefits and it promotes intellectual growth.

Keywords: AI Writing Tools Utilization, Behavioral Intention, Institutional AI Policies, Authorized Scaffolding, Pasay City, Philippines