

ABSTRACT

The utilization of Large Language Models (LLMs) in UI design and frontend development for web commerce offers significant potential to improve application efficiency and quality. With their ability to process natural language, LLMs can support the automation of UI design, frontend code generation, and software testing in a faster and more accurate manner. This study employs an experimental approach and literature review to evaluate the use of LLMs across various stages of frontend web commerce development. The initial hypothesis of this research is that LLMs can accelerate frontend development, reduce errors, and enhance user interface quality. Furthermore, challenges in implementing LLMs, such as high computational demands and potential biases in data, will also be discussed to provide a comprehensive overview of their application.

Keywords: *Large Language Model (LLM), UI Design, Frontend Web Commerce, Automation, Development Efficiency.*