

ABSTRACT

The rapid development of Artificial Intelligence (AI) presents various challenges in software testing. AI output must be ensured to maintain the quality, accuracy, and reliability of commands, particularly in programming and code correction. This study aims to compare Gemini AI and Blackbox AI through Blackbox testing and user evaluation using the Technology Acceptance Model (TAM) approach. The testing will ensure that both AI systems deliver the best results for programming and code correction problems. Testing was conducted using five test case scenarios using the Software Testing Life Cycle (STLC) approach, and self-testing using Sonarqube as an analysis and testing tool.

Blackbox testing results indicate that Blackbox AI is more suitable for use because it has superior potential due to better maintainability and fewer code smells, facilitating maintenance and ongoing development. However, if user needs are based on efficiency and rapid problem resolution without the need for in-depth explanations, Gemini AI is highly suitable.

Keywords: *Blackbox Testing, Gemini AI, Blackbox AI, SonarQube, Software Testing Life Cycle (STLC), Technology Acceptance Model (TAM).*