ABSTRACT

The motorcycle recommender system based on Conversational Case-Based Reasoning is an interactive approach designed to provide motorcycle model recommendations aligned with user preferences. This system combines case-based reasoning, which calculates similarity against a case base, with critique-based refinement that enables users to adjust their preferences when the initial recommendations do not meet their expectations. By offering flexibility in defining attributes and their priority order, the system delivers more personalized and adaptive recommendations to suit users' dynamic needs. Evaluation results from 72 respondents indicate that the system produces fairly accurate recommendations, with a satisfaction rate of 75% and only 6% of users needing to perform refinement. These findings suggest that the system can provide relevant recommendations from the initial interaction while also offering an interaction mechanism that supports users' specific requirements.

Keywords: recommender system, knowledge-based recommender system, case-based reasoning, conversational recommender system, critique-based, user preferences, motorcycle, two-wheeled vehicles.