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## Context-Aware Recommender System Using Collaborative Filtering, Content-Based Algorithm and Fuzzy Rules

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**Abstract :** Contextual recommendations are implemented in Recommender Systems to improve user satisfaction, recommender system makes accurate and suitable recommendations for a particular situation reaching personalized recommendations. The context provides information relevant to the Recommender System and is used as a filter for selection of relevant items for the user. This paper presents a Context-aware Recommender System, which uses techniques based on Collaborative Filtering and Content-Based, as well as fuzzy rules, to recommend items inside the context. The dataset used to test the system is Trip Advisor. The accuracy in the recommendations was evaluated with the Mean Absolute Error.

**Keywords:** algorithms, collaborative filtering, intelligent systems, fuzzy logic, recommender systems **Conference Title:** ICCSIS 2015: International Conference on Computer Science and Intelligent Systems

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