ABSTRACT

The increasing diversity of food and beverage providers poses a challenge for people in finding that align with their preferences. Restaurant recommendation systems can address this issue by offering accurate and relevant suggestions. Although there are many previous studies related to recommendation systems, the utilization of knowledge graphs implemented with GP 2 remains limited. Knowledge graphs can systematically represent complex information, whereas GP 2 is a specialized graph programming language that has a simple syntax. This research focuses on the implementation of a knowledge graph-based restaurant recommendation system with GP 2. The recommendation scheme built can provide the best accuracy, reaching 84.97%. This shows that a knowledge graph-based restaurant recommendation system with GP 2 can be an effective solution to overcome recommendation challenges.

Keywords: recommender system, restaurant recommendation, knowledge graph, GP 2