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(57) Abstract :

The system (100) comprises interconnected modules for learning user activity preferences, a data collection module (104) captures GPS traces from the user's device (102); a Venue information retrieval module (116) gathers data about nearby venues; a Data preprocessing module (118) refines GPS and venue information; a Feature extraction module (120) distills key elements such as frequency of visits, time spent, distances, user ratings, and context; a Machine learning model (122) associates features with user preferences using historical data; a Activity prediction module (124) forecasts preferences based on location, venues, and context, producing personalized recommendations; and a User interface module (112) offers convenient access to tailored suggestions. Furthermore, the user device (102) integrates a processor (106), memory (108), and storage (110), enhancing the system's capabilities

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