

Developing a restaurant management system integrated with AI to predict customer volume based on reservation history.

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Abstract: In the fiercely competitive context of the food service industry, optimizing restaurant management processes has become more important than ever. This topic focuses on developing a restaurant management system integrated with artificial intelligence (AI) to predict customer volume based on real-time reservation history. The goal is to enhance service efficiency and minimize risks caused by overcapacity or shortages. Through both theoretical and applied research, this topic will provide a comprehensive solution to improve customer experience while optimizing restaurant resources. The expected outcome is an advanced management system that helps restaurants achieve higher business performance and flexibility in predictive management.

Keywords: Restaurant management system, Artificial Intelligence (AI), Customer volume prediction