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Cooking with ChatGPT and Bard: A Study on Competencies of AI Tools on Recipe Correction, Adaption, Time Management and Presentation

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Abstract

With its potential use in many areas including food and beverage sector, artificial intelligence has become one of the most prominent topics recently, partly due to the new AI tools. This study evaluates the competencies of ChatGPT (versions 3.5 and 4) and Bard in relation to food recipes by assigning tasks in five different areas: recipe correction, recipe adaptation, recipe detailing, time management, and presentation. The responses were then analyzed. It was observed that ChatGPT 4 outperformed the other tools in recipe correction, time management and presentation tasks while it gave similar results with ChatGPT 3.5 in recipe adaptation and recipe detailing tasks. Bard performed better than ChatGPT 3.5 in recipe correction but performed worse than both tools in all other tasks. Subsequent discussions highlighted the strengths and limitations of the tools. While these tools' scores may not yet outperform a professional chef in the assigned tasks, they can be alternative and supportive assets in the gastronomy field considering their rapid response rates. Along with the potential use of the tools in tasks such as adapting recipes, managing time, and generating presentation ideas, the ongoing development and interaction of AI tools and related technologies could contribute significantly to the food industry in the future.

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