Alpha Presentation

Personalizing the Culinary Experience

The Capstone Experience

Team Whirlpool

Sifatul Anindho
Sai Byrraju
Drew Peterson
Jasmine Richardson
Christina Tagay

Department of Computer Science and Engineering
Michigan State University
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Project Overview

• Identify user preferences in interactions with HMI (Human-Machine Interface) and mobile app
• Personalize user profiles based on the analyzed interaction data
• Offer customized recipe suggestions and cooking settings to users
• Display aggregated user analytics on a data dashboard
System Architecture
Oven display home page
Oven Display Cycle Page

Cookies

Preheating to 400° and cook Time is 11 minutes

128°
Mobile Application Home Screen
Data Dashboard

3 new cycles today, 2024-02-18

Cumulative Sum of Detected Food Over Time

Recommended Temperature vs Chosen Temperature for Dessert

Food Types Distribution

Cookies Cooked During the Week
What’s left to do?

• Use Firebase to connect same user session to HMI oven and mobile app
• Implementing “Broil” and “Autocook” tabs
• Improve UI design
• Implement a secure encryption mechanism to store user login information
Questions?