


# Chapter 7


## From Kitchens to Code: Cross-Cultural Perspectives on AI and Smart Cooking Adoption

**Aruditya Jasrotia**

 <https://orcid.org/0000-0002-8274-5609>

*Amity University, Noida, India*

**Suman Lata**

 <https://orcid.org/0000-0002-9862-0739>

*Amity University, Noida, India*

### ABSTRACT

*This study explores how cultural values, traditions, and attitudes influence the adoption and perception of AI-driven smart cooking technologies (e.g., smart kitchen appliances, AI recipe assistants, automated cooking robots) across different cultural contexts. While some cultures may embrace technology for its convenience and innovation, others may view it as a threat to traditional culinary practices, family roles, or food identity. The research aims to compare user acceptance, usage patterns, and cultural resistance to AI in the kitchen across diverse regions or demographic groups.*

### INTRODUCTION

The integration of artificial intelligence (AI) into domestic kitchens marks a transformative shift in how people engage with food preparation, blending cutting-edge technology with one of humanity's oldest practices—cooking. From AI-powered recipe assistants to automated cooking robots and smart appliances, these innovations promise convenience, precision, and personalization. Yet, their adoption is far

DOI: 10.4018/979-8-3373-4042-5.ch007

from universal, shaped by deeply rooted cultural values, traditions, and attitudes toward technology. In some societies, smart cooking tools are celebrated as symbols of progress, while in others, they are met with skepticism, perceived as threats to culinary heritage, family roles, or the sensory artistry of traditional cooking. This chapter, “From Kitchens to Code: Cross-Cultural Perspectives on AI and Smart Cooking Adoption,” explores how cultural contexts influence the perception and integration of AI-driven cooking technologies, offering a comparative lens on global kitchens navigating this technological frontier.

Cooking is more than a practical task; it is a cultural artifact, embodying identity, memory, and social bonds (Counihan & Van Esterik, 2013). As AI reshapes this domain, questions arise about its compatibility with diverse culinary traditions and its impact on roles historically tied to food preparation. For instance, in tech-forward Japan, robotic sushi makers may align with a culture of innovation, whereas in Italy, where cuisine is a cornerstone of national identity, such tools might face resistance for undermining artisanal practices (Ceccarini, 2011). Similarly, in India, where cooking is often a communal and ritualistic act, AI’s promise of efficiency may clash with the emotional and spiritual dimensions of food preparation (Sen, 2009). These variations highlight the need to examine not only technological adoption but also the cultural narratives that shape it.

This study has four primary objectives: (1) to investigate cultural differences in attitudes toward AI in domestic cooking, (2) to identify factors such as tradition, technology literacy, age, and cuisine type that drive acceptance or rejection of smart cooking tools, (3) to assess how AI is redefining traditional cooking roles and practices across cultures, and (4) to explore consumer expectations for personalization, cultural relevance, and trust in AI-based cooking solutions. Through comparative case studies of culturally distinct regions—such as Japan, Italy, and India—combined with surveys, interviews, and thematic analysis, this research seeks to uncover the interplay between innovation and tradition in the modern kitchen. By reviewing popular smart kitchen products, it also evaluates their cultural adaptability, shedding light on how technology can better align with diverse foodways.

Ultimately, this chapter aims to contribute to a nuanced understanding of AI’s role in reshaping culinary practices, offering insights for designers, policymakers, and consumers navigating the intersection of technology and culture. As kitchens evolve from analog to algorithmic, the challenge lies in ensuring that smart cooking technologies honor the diversity of global culinary traditions while fostering innovation.

18 more pages are available in the full version of this document, which may be purchased using the "Add to Cart" button on the publisher's webpage: [www.igi-global.com/chapter/from-kitchens-to-code/391709](http://www.igi-global.com/chapter/from-kitchens-to-code/391709)

## Related Content

---

### Digital Minimalism and Data Governance as Coping Responses to Technostress

Annisa Fitri (2026). *Interdisciplinary Approaches to Data Governance, AI, and Digital Society* (pp. 1-22).

[www.irma-international.org/chapter/digital-minimalism-and-data-governance-as-coping-responses-to-technostress/412552](http://www.irma-international.org/chapter/digital-minimalism-and-data-governance-as-coping-responses-to-technostress/412552)

### Customer Experience and Marketing in the Digital Era

Tito Antonio A. Ofilada, Jr. and Ethelbert Garcia Galang (2026). *Driving Excellence Through AI-Powered Performance Management* (pp. 55-90).

[www.irma-international.org/chapter/customer-experience-and-marketing-in-the-digital-era/403940](http://www.irma-international.org/chapter/customer-experience-and-marketing-in-the-digital-era/403940)

### Impact of Artificial Intelligence on Organizational Performance of Agritech Firm

C. Ganeshkumar, Jeganathan Gomathi Sankarand Arokiaraj David (2025). *AI-Powered Business Intelligence for Modern Organizations* (pp. 265-282).

[www.irma-international.org/chapter/impact-of-artificial-intelligence-on-organizational-performance-of-agritech-firm/358101](http://www.irma-international.org/chapter/impact-of-artificial-intelligence-on-organizational-performance-of-agritech-firm/358101)

### Harnessing Blockchain for Human-Centric Transformation: Enhancing KPI Outcomes in Flexible Work Models During Recovery Phases

Heru Susanto, Alifya Kayla Shafa Susanto, Syafiq Rowii, Desi Setiana, Andri Saputra and Taufik Yudiantoro (2026). *Emerging AI, Governance, and Digital Innovations for Sustainable Organizations* (pp. 131-256).

[www.irma-international.org/chapter/harnessing-blockchain-for-human-centric-transformation/399750](http://www.irma-international.org/chapter/harnessing-blockchain-for-human-centric-transformation/399750)

### A Traitor Identification Technique for Numeric Relational Databases with Distortion Minimization and Collusion Avoidance

Arti Arun Mohanpurkar and Madhuri Satish Joshi (2016). *International Journal of Ambient Computing and Intelligence* (pp. 114-137).

[www.irma-international.org/article/a-traitor-identification-technique-for-numeric-relational-databases-with-distortion-minimization-and-collusion-avoidance/160128](http://www.irma-international.org/article/a-traitor-identification-technique-for-numeric-relational-databases-with-distortion-minimization-and-collusion-avoidance/160128)