


# Chapter 3

## ChatGPT as a Personalized Professional Development Tool: Voices of English Teachers

**Galip Kartal**

 <https://orcid.org/0000-0003-4656-2108>  
Necmettin Erbakan University, Turkey

### **ABSTRACT**

*This study explored the experiences of in-service English teachers using ChatGPT, an advanced AI language model, as a professional development tool. Adopting an exploratory case study approach, findings revealed a positive perception of ChatGPT's potential for personalized learning and professional growth. However, challenges related to technical issues, understanding complex queries, and accuracy concerns were identified. Recommendations include structured training for educators and refining AI models to better understand educational contexts. This research contributes to the discourse on AI's role in education and professional development.*

### **INTRODUCTION**

The inception of the 21st century has been distinctly characterized by a sweeping technological revolution, instigating a profound paradigm shift that permeates various domains, notably including the realm of education. The contemporary educational landscape is perpetually molded and reconfigured by the relentless advancements in technology, catalyzing alterations in pedagogical strategies and the overall

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learning experience (Selwyn, 2011). A technology of transformative caliber that has been increasingly pervasive across diverse educational spectrums is Artificial Intelligence (AI), which harbors the potential to radically revolutionize teaching and learning through the provision of innovative instructional tools (Kartal, 2023), the personalization of learning experiences (Panigrahi, 2020), and the fostering of enhanced efficiencies (Luckin et al, 2016). Within the extensive applications of AI in education, the emergence of sophisticated AI language models, including but not limited to OpenAI's ChatGPT, Google Bard, and Microsoft Bing, has garnered substantial attention and intrigue. ChatGPT, meticulously trained utilizing machine learning algorithms on copious volumes of text, manifests the capability to generate text responses that eerily mirror human-like qualities, showcasing an astute understanding of context, grammar, and even intricate nuances of language (Deng & Lin, 2023; Kartal, 2023). Such models unfold intriguing possibilities, especially for language educators, potentially serving as innovative tools for professional development.

The pivotal importance of professional development for educators, especially those engaged in English language teaching, cannot be understated, as it is quintessential for maintaining and enhancing the quality of teaching by ensuring educators remain abreast with the latest methodologies, resources, and technological innovations in teaching. Traditional approaches to professional development have typically embraced methods such as workshops, self-monitoring, seminars, analyzing critical incidents, peer coaching, team teaching, case analyses, teacher support groups, and the maintenance of a teaching journal, among others (Richards & Farrell, 2009). However, the advancements in AI, particularly through tools like ChatGPT, present a novel opportunity for a more personalized, autonomous, and flexible professional development experience (Atlas, 2023).

In light of this, the present chapter endeavors to delve deeply into the potential and tangible realities of employing ChatGPT as a personalized professional development tool for in-service English teachers. It aims to particularly explore the experiences, perceptions, and recommendations of English teachers who have judiciously integrated ChatGPT into their professional development activities. The overarching goal is to elucidate the ways in which the AI language model ChatGPT can be effectively utilized to foster professional growth, refine teaching methodologies, and subsequently enhance the language learning experiences in classrooms. Through this investigatory lens, this chapter seeks to enrich the wider discourse concerning the confluence of AI and foreign language education, thereby providing educators, administrators, policymakers, and researchers with an informed perspective regarding the potential advantages, challenges, and best practices for employing AI tools in professional development.

Although numerous research endeavors have investigated the potential and challenges of ChatGPT within educational contexts (Adigüzel et al., 2023; Kasneci

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