



ADVANCING TRANSLATION THROUGH AI AND INNOVATIVE PEDAGOGY

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Abstract. This thesis explores the intersection of artificial intelligence (AI) and innovative pedagogy in the field of translation. With the rise of AI technologies, the landscape of translation is undergoing significant transformations. This thesis examines the potential impact of AI on translation practices and the role of innovative pedagogy in preparing translators for the evolving demands of the industry.

Key words: AI translation, Translation pedagogy, Machine translation, Translation quality, Cultural competence, Critical thinking, Natural language.

Abstrakt. Ushbu tezis tarjima sohasidagi sun'iy intellekt (AI) va innovatsion pedagogikaning kesishishini o'rganadi. AI texnologiyalarining yuksalishi bilan tarjima landshafti sezilarli o'zgarishlarni boshdan kechirmoqda. Ushbu maqola AIning tarjima amaliyotiga potentsial ta'sirini va sanoatning o'zgaruvchan talablari uchun tarjimonlarni tayyorlashda innovatsion pedagogikaning rolini o'rganadi.

Kalit so'zlar: AI tarjimasi, Tarjima pedagogikasi, Mashina tarjimasi, Tarjima sifati, Madaniy kompetentsiya, Tanqidiy fikrlash, Tabiiy til.

Абстракт. В данной тезисе исследуется пересечение искусственного интеллекта (ИИ) и инновационной педагогики в сфере перевода. С появлением технологий искусственного интеллекта сфера перевода претерпевает значительные изменения. В этой статье рассматривается потенциальное влияние ИИ на практику перевода и роль инновационной педагогики в подготовке переводчиков к меняющимся требованиям отрасли.

Ключевые слова: ИИ-перевод, Педагогика перевода, Машинный перевод, Качество перевода, Культурная компетентность, Критическое мышление, Естественный язык.

Introduction

Translation has always been a crucial bridge between languages and cultures. The advent of AI technologies has brought about both opportunities and challenges in the field of translation. Meanwhile, innovative pedagogical approaches have the potential to equip translators with the skills necessary to navigate this changing landscape.

With industry characteristics as the basis for training English language talents in different directions to meet the needs of society, the training of language professionals in colleges and universities is gradually focusing on other areas of training. We can call them specialties of high-end complex talents on English. Language translation is an important part of English language education and is an essential component of professionals' competencies. Culturing this competence usually requires the combination of theory and practice, such as using the theoretical knowledge acquired to translate works to improve one's translation skills. However, some English professionals



still rely on AI translation in their translation practice, which is not conducive to developing their English language skills. In recent years, some researchers have suggested that the rapid growth of AI translation tool could hurt English professionals.

Methodology

Many scholars believe that the existing translation standards and translation criticism standards are too subjective and lack objectivity and an index system. However, judging translations in terms of accuracy to the original text, linguistic style, the connotation of the source language, ideology, cultural background, and logical expression is now recognized by many English professionals. A word may have multiple meanings in the translation process, so the translator needs to choose the best meaning that is faithful to the text, acceptable to the reader, and conveys the connotation and emotion that the author wants to convey. This means that translations need to meet the translation standard of Faithfulness, Expressiveness, and Elegance needs to be satisfied in the translation process AI, particularly the GPT-4 model, has revolutionized translation through its ability to process and generate human-like text. Its advanced natural language processing capabilities have enabled the development of sophisticated translation tools that can handle complex linguistic nuances. These AI tools have significantly improved translation speed and accuracy, making them indispensable for large-scale translation projects.

Efficiency: AI-powered translation tools can handle large volumes of text at a fraction of the time it would take a human translator.

Consistency: AI ensures consistency in terminology and style across translations, which is crucial for maintaining brand identity in global markets.

Cost-Effectiveness: AI-driven translation solutions offer cost savings for businesses and organizations compared to traditional translation services.

Contextual Understanding: While AI excels in literal translation, it often struggles with understanding context and cultural nuances, which are essential for accurate and natural-sounding translations. **Ethical Considerations:** The use of AI in translation raises ethical concerns regarding data privacy, bias in algorithms, and the potential displacement of human translators.

Innovative Pedagogy in Translation Education

In response to the evolving landscape of translation, innovative pedagogical approaches are emerging to equip future translators with the skills and knowledge necessary to harness the potential of AI while addressing its limitations.

Educational institutions are incorporating AI-driven translation tools into their curriculum to familiarize students with these technologies. By providing hands-on experience with AI tools, students gain insights into their capabilities and limitations,



preparing them for the realities of the industry. Emphasis on Critical Thinking and Cultural Competence Innovative pedagogy in translation education emphasizes the development of critical thinking skills and cultural competence. These skills are essential for human translators to complement AI tools by providing contextually accurate and culturally sensitive translations.

Collaboration with Industry Experts

Educational institutions are forging partnerships with industry experts to expose students to real-world translation challenges and the latest AI-driven tools. This collaborative approach ensures that students are prepared to leverage AI effectively while understanding the nuances of translation beyond literal language conversion.

Conclusion

The symbiotic relationship between AI and innovative pedagogy holds the key to advancing translation practices. While AI technologies offer unprecedented efficiency and scale, innovative pedagogy plays a vital role in preparing translators to navigate the complexities of language, culture, and context. By embracing both AI advancements and innovative pedagogical approaches, the translation industry can elevate the quality and impact of cross-cultural communication in an increasingly interconnected world.

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