

Translating the Future: A Comprehensive Study and Survey of AI Algorithms in Language Translation, Identifying Research Gap

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Abstract: *The world is becoming increasingly interconnected, fostering global collaboration, information sharing, and cultural exchange. This ever-increasing need for seamless communication across language barriers necessitates efficient and accurate language translation solutions. Fortunately, the emergence of artificial intelligence (AI) algorithms has revolutionized the field of Machine Translation (MT) by offering powerful tools for bridging the language gap. This paper presents a comprehensive two-pronged approach aimed at investigating the current state of AI-powered language translation and identifying critical areas for future research.*

Keywords: Machine Translation (MT), Artificial Intelligence (AI), Neural Machine Translation (NMT), Language Translation Algorithms, Research Gaps in AI Translation