

Transformer architecture and its application in machine translation

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Abstract: In the context of the rapid development of information technology, finding an effective method to solve the machine translation problem has become important. This topic focuses on the Transformer architecture, a prominent and successful deep learning model in the field of natural language processing (NLP). The goal is to build a machine translation system using the Transformer architecture to improve accuracy and speed. The research method combines theory with experimentation, including evaluating the model's performance on standard datasets. This topic is expected to make an important contribution to the NLP field by providing an effective machine translation system.

Keywords: Transformer architecture, Machine translation, Natural language processing, Deep learning model, Machine translation system