

Thesis Project Portfolio

Analyzing the Potential of Natural Language Processing on Self-Reflection

(Technical Report)

Shaping Language Translation Technology: The Influence of Social Forces and Values on Natural Language Processing Applications

(STS Research Paper)

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Technical Topic - Analyzing the Potential of Natural Language Processing on Self Reflection

Self-reflection is a fundamental aspect of personal growth and development, as it enables individuals to gain insights into their thoughts, emotions, and behaviors. However, self-reflection can be challenging, especially when individuals lack the skills or motivation to engage in this practice. With the rise of natural language processing (NLP) technology, there is potential for it to assist individuals in reflecting on their experiences and emotions in a more accessible and effective way. In this paper, we explore the potential of NLP in supporting self-reflection, discussing its benefits and limitations, and proposing an experiment to evaluate the effectiveness of NLP techniques in self-reflection.

STS Research Topic - Shaping Language Translation Technology: The Influence of Social Forces and Values on Natural Language Processing Applications

Natural Language Processing has revolutionized the way we interact with language technology. It has made it possible for machines to understand and generate human language, enabling a wide range of applications such as language translation, speech recognition, sentiment analysis, chatbots, and more. However, the development and deployment of such technology is not devoid of social and cultural influences, including the values and biases of its creators and users. NLP applications are shaped by social forces that affect the collection and use of data, the training and evaluation of algorithms, and the design and implementation of related systems. This report explores the influence of social forces and values on NLP applications for language translation, drawing on the insights provided by the Social Construction of Technology framework.