

Review of: "Current Trends in the Use of Machine Learning for Error Correction in Ukrainian Texts"

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Potential competing interests: No potential competing interests to declare.

Main Issue Identified in the Text

The main issue identified in the text is the inadequacy of existing Grammar Error Correction (GEC) tools and systems for the Ukrainian language. This inadequacy stems from several factors:

1. **Morphological Complexity:** Ukrainian is a morphologically complex language, and existing pre-trained models were not created with these complexities in mind.
2. **Limited Annotated Data:** There is a scarcity of high-quality, annotated GEC datasets specifically for Ukrainian, which hampers the training and effectiveness of these models.
3. **Context Understanding:** Current GEC systems often fail to understand the context of sentences, leading to incorrect error detection and correction.
4. **Need for Specialized Models:** There is a critical need for developing specialized models that consider the unique syntactic and semantic features of the Ukrainian language.
5. **Research and Development:** Continued research and development are necessary to improve neural network architectures and training processes, including the use of synthetically generated data and step-by-step tuning on both synthetic and "gold" standard data.

The text emphasizes that addressing these issues requires a concentrated effort to create a specialized, robust model tailored to the Ukrainian language, and expanding the corpus of high-quality annotated data.