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Hate Speech Detection using Deep Learning

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Abstract: Hate speech detection is a crucial task in natural language processing, aimed at identifying and mitigating offensive and harmful content online. In this study, we propose an innovative approach for hate speech detection that combines deep learning based Convolutional Neural Networks (CNNs) and Bidirectional Long Short-Term Memory (Bi-LSTM) networks. Our model is designed to make effective local and global dependencies in the document. This approach provides a framework for identifying hate speech by using the combined capabilities of deep CNNs and Bi-LSTMs, setting the groundwork for the creation of more advanced and precise detection systems to promote safer online environments.

Keywords: CNN, Bi-LSTM, Deep learning, Natural language processing

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