

Research on a hybrid learning model between CNN and LSTM, applied to the problem of detecting fake news on social networks.

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Abstract: In the context of the increasing prevalence of fake information on social media platforms, accurately identifying false content has become an urgent issue. This research studies and develops a hybrid learning model combining Convolutional Neural Network (CNN) and Long Short-Term Memory (LSTM), aiming to build an effective fake news classification system with high accuracy. Through the experimental process, the model is trained on large datasets from social media, and prediction results are evaluated using metrics to ensure consistency across different datasets. Additionally, you may consider using other types of attention mechanisms or fusing multiple attention modules to enhance model performance.

Keywords: Social media, fake news detection, CNN-LSTM, machine learning, hyperparameter optimization