

ABUSIVE COMMENT DETECTION IN TELUGU USING DEEP LEARNING

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The escalating prevalence of abusive comments in online Telugu content poses a significant challenge to maintaining digital civility. This research introduces an innovative hybrid neural network model that effectively identifies abusive comments in the Telugu language. Our model synergizes a Bidirectional Long Short-Term Memory (BiLSTM) network, a Convolutional Neural Network (CNN), and a custom attention mechanism with self-trained embeddings. The self-trained embeddings are meticulously designed to capture the lexical subtleties of the Telugu language, while the BiLSTM and CNN layers extract contextual and hierarchical features, respectively. The attention mechanism prioritizes crucial information by attenuating common but less informative stopwords. The results of this study underscore the effectiveness of bespoke models for language-specific NLP tasks and pave the way for more respectful online interactions in multilingual digital spaces.