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Abusive Target-Oriented Investigation of Online Abusive Attack: A Systematic Analysis of Detection Methods, Challenges, and Opportunities

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Abstract: The widespread use of online communication platforms like social media, forums, and messaging apps has revolutionized the way individuals interact and express opinions. However, this digital growth has also led to an increase in abusive behaviors, particularly personalized and target-specific attacks that threaten user safety and the credibility of online spaces. Traditional systems for detecting offensive language often fall short when it comes to identifying subtle, coded, or context-dependent abuse directed at specific individuals or communities.

To address these limitations, this research introduces a robust and advanced methodology for detecting target - oriented abusive content. The proposed system integrates machine learning, natural language processing (NLP), and deep learning to effectively understand language structure and context, enabling the accurate identification of both overt and covert abusive behavior. The model demonstrates high accuracy across diverse datasets and emphasizes minimizing false positives. In addition to enhancing current abuse detection technology, the study explores challenges like data imbalance and ethical concerns, paving the way for future advancements in online safety and digital well-being.

Keywords: Online abuse, Target oriented investigation, Machine learning, NLP, Sentiment Analysis, Abusive language Detection



