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## Discovering of Cyber Bullying in OSN using Machine Learning

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Abstract: Social networking has become a crucial means of daily communication for a vast majority of individuals, with its usage extending to all segments of the population. The widespread use of social media suggests that cyberbullying has the potential to impact individuals regardless of their location or time. Additionally, the relative anonymity provided by online platforms makes it more difficult to prevent such personal attacks compared to traditional forms of bullying. The challenge of precisely identifying the disparities in power, negative reassurance, and hazardous affiliation that are typically associated with conventional bullying is presented by the world of the internet and disguise of anonymity. Cyberbullying is an ongoing research question that continues to develop. The phenomenon of cyberbullying is defined as the repetitive use of digital media to engage in acts of encroachment or bullying. The high incidence of cyberbullying is a matter of great concern. The methodology employed for identifying instances of cyberbullying involves the utilization of Term Weight, Shannon Information Gain, ECLAT algorithm, and Fuzzy Classification. The efficacy of the approach has been assessed with successful outcomes that have proven tobe highly profitable.

Keywords: Fuzzy Classification, Shannon Information Gain, Term Weight, Cyberbullying detection

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