

Billy – Buddy Against Cyberbullying

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Abstract — *Cyberbullying is a common threat in the digital world that affects teens and young adults through harmful behaviour's like spreading untrue rumour's, sharing personal information without permission, and making inappropriate remarks. These behaviour's frequently result in serious emotional effects like depression, anxiety, or suicidal thoughts. To solve this, we created "Billy," a sophisticated chatbot that provides sufferers with anonymous support. Billy enables safe incident reporting and the submission of evidence to authorities while protecting user privacy. Additionally, it gathers anonymized data to help with preventive efforts by identifying high-risk regions and patterns. Billy also cultivates a victim support community online, encouraging resiliency and camaraderie. Through community development, data-driven insights, and human support, Billy hopes to prevent online harassment and establish a safer online space.*

Index Terms — *Cyberbullying, Natural Language Processing [NLP], Chatbot.*

I. INTRODUCTION

Cyberbullying has become an increasing issue in the digital age, especially affecting young adults and teens on messaging applications, social media, and gaming platforms. In contrast to traditional bullying, cyberbullying can happen at any time and involves damaging behaviour's such as circulating false information, making harsh comments, and disclosing personal information without permission. Because it is so persistent and visible, victims rarely get a break from it. Our solution to this problem is "Billy," a cutting-edge chatbot that offers victims instant, private assistance. Billy provides a secure environment for incident reporting, evidence submission, and advice, protecting users' privacy and well-being while enabling them to fight online harassment.

It is especially harmful because of its tenacity and scope, since victims are harassed everywhere they go through smartphones and internet access. The psychological impacts are significant and frequently result in despair, anxiety, low self-esteem, and even suicide thoughts, particularly in emotionally susceptible teens. To lessen these effects and give

victims coping mechanisms, immediate intervention methods are essential.

"Billy" provides a secure and private venue for assistance to victims of cyberbullying. To protect their privacy and facilitate action against criminals, victims can submit comprehensive reports together with supporting documentation, such as screenshots. Billy makes it easier for users to submit events to cybercrime departments, giving them the confidence and security to handle them. Its prompt aid and responsiveness give victims a sense of support and inclusion.

In addition to helping individuals, Billy also helps prevent it by gathering information on incidences. By using this data, authorities can more efficiently allocate resources by identifying high-risk regions and patterns. Furthermore, Billy helps victims feel like they belong by promoting anonymous support and experience sharing, reaffirming that they are not alone in their hardships.

II. BACKGROUND LITERATURE

Cyberbullying is a major societal problem in the age of technology that disproportionately impacts adolescents and has serious emotional and psychological repercussions. The impact it has on mental health is shown by research by Kowalski et al. (2014), which also highlights the necessity of real-time therapeutic solutions. AI-powered chatbots, such as the "Billy," that has been proposed, present a viable answer by giving victims a sympathetic, anonymous platform for instant help and recovery.

It has a significant negative influence on young adults, frequently leading to feelings of loneliness, anxiety, and sadness, and in extreme situations, suicide thoughts (Kowalski et al., 2014; Tokunaga, 2010). Recovery might be difficult since victims may socially retreat because of their frustration and anger. According to Spriggs et al. (2012), peer support networks have demonstrated efficacy in promoting emotional healing by offering victims empathy and camaraderie. By providing a secure online community where victims can exchange stories and get advice, the "Billy" chatbot helps victims regain their confidence and feel less alone.

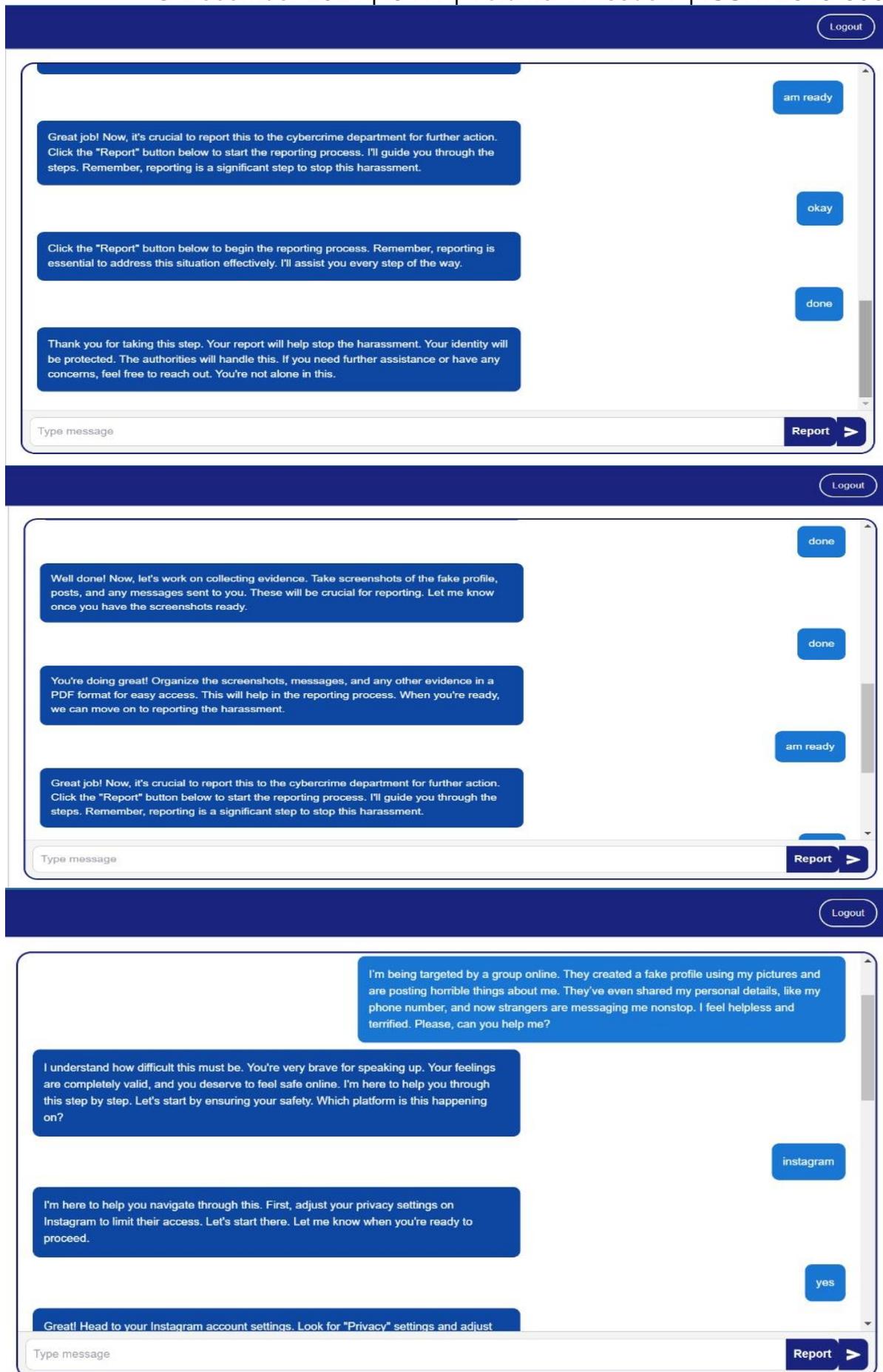


Fig 6.1 Chatbot's Response

and evaluates trends in cyberbullying, providing insightful information that helps lawmakers and law enforcement successfully address more general issues. Billy empowers victims and helps combat cyberbullying by combining safe data management, actionable information, and emotional assistance.

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