**Sreenidhi Institute of Science and Technology Department of Information Technology MAJOR PROJECT**

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| **Batch No: A19** | | **Title** |
| **Roll No** | **Name** |
| 20311A1229 | K Snehitha | **Technological Vigilance: Detecting and Preventing Cyberbullying in the Digital Age** |
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| 20311A1255 | K Sriya Reddy |

ABSTRACT

Cyberbullying is the utilization of electronic communication channels, such as the internet, social media, or digital platforms, to harass, threaten, or intimidate individuals. This harmful behavior encompasses diverse manifestations, including the dissemination of false information, sharing private or embarrassing content, making derogatory comments, and engaging in other detrimental actions online. Cyberbullying is not confined to specific contexts; it can manifest both in personal and professional settings, exerting substantial and varied impacts on the affected individuals.

The aim of this research is to create a proficient method for identifying and handling online abusive and bullying messages by integrating natural language processing and machine learning. Two distinct features, namely Bag-of-Words and Term Frequency-Inverse Text Frequency, are utilized for analysis. The growth of the Internet has witnessed a significant increase in the adoption of social media, becoming a predominant networking tool in the twenty-first century. Although platforms such as social networking sites and online chat programs provide users with chances to showcase their skills and knowledge, a small percentage exploit these platforms for cyberbullying, posing usability challenges to these services. Cyberbullying is recognized as a form of technology abuse, and recent worldwide data analysis indicates a daily rise in incidents of cyberbullying.

Table 1: Project correlation with appropriate POs/PSOs (Please specify level of Correlation, H/M/L against POs/PSOs)

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| **H** | **High** | **M** | **Moderate** | **L** | **Low** |

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| **SREENIDHI INSTITUTE OF SCIENCE AND TECHNOLOGY**  **DEPARTMENT OF Information Technology Projects Correlation with POs/PSOs** | | | | | | | | | | | | | | |
| PO 1 | PO 2 | PO 3 | PO 4 | PO 5 | PO 6 | PO 7 | PO 8 | PO 9 | PO1 0 | PO1 1 | PO1 2 | PSO 1 | PSO 2 | PSO 3 |
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Table 2: Nature of the Project (Please tick √ Appropriate for your project)

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| **Batch No.** | **Title** | **Nature of Project** | | |
| **Product** | **Application** | **Research** |
| A19 | Technological Vigilance: Detecting and Preventing Cyberbullying in the Digital Age |  | **√** |  |

Table 3: Domain of the Project (Please tick √ Appropriate for your project)

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|  |  | Domain of the Project | | | | |
| **Batch No.** | **Title** | **ARTIFICIAL INTELLIGE NCE, MACHINE LEARNING** | **COMPUTER NETWORKS, INFORMATION SECURITY, CYBER SECURITY** | **DATA WAREHOUSI NG, DATA MINING, BIG DATA ANALYTICS** | **CLOUD COMPUTING, INTERNET OF THINGS** | **SOFTWARE ENGINEERING, IMAGE PROCESSING** |
|  |  | **AND DEEP** |  |  |
|  |  | **LEARNING** |  |  |
| A19 | Technological Vigilance: Detecting and Preventing Cyberbullying in the Digital Age | **√** |  |  |  |  |

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