**NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS)**



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

2024-2025

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| **Batch Number** | **BG11** |
| **Team Members** | Ravi Lakshmi Sri Harsha (21471A05B7)  Sistla.V.S.M Rohith (21471A05C7)  Shaik Najeer (21471A05C3) |
| **Guide** | M.Suneetha M.Tech |
| **Title** | Fake Profile Detection Using Machine Learning |
| **Domain/Technology** | MACHINE LEARNING |
| **Base Paper Link** | https://ieeexplore.ieee.org/document/10459570 |
| **Dataset Link** | **https://www.kaggle.com/datasets/mdmahadihasan/fake-profile-detection-y-ml** |
| **Software Requirements** | Browser: Any latest browser like Chrome  Operating System: Windows 7 Server or later Python (COLAB) |
| **Hardware Requirements** | SystemType: Intel Core i5 or above RAM: 8 GB  Number of cores:5  Number of Threads: 4 |
| **Abstract** | Fake profile detection using machine learning is crucial for ensuring security and authenticity in online platforms. This study explores various machine learning techniques to identify fraudulent profiles based on behavioral and textual features. Supervised learning algorithms such as Random Forest, SVM, and Neural Networks are employed for classification. Feature engineering includes analyzing profile pictures, activity patterns, and linguistic cues. The dataset is preprocessed and split for training and testing to ensure model accuracy. Evaluation metrics like precision, recall, and F1-score are used for performance assessment. The proposed approach enhances automated fake profile detection, improving online safety. |

Signature of the student(s) Signature of the Guide Signature of the project coordinator