ABSTRACT

The increasing prevalence of fake profiles in social media has become a major concern for users and platform operators alike. In response, researchers have developed various methods for detecting these profiles, including the use of deep learning algorithms such as Long Short-Term Memory Recurrent Neural Networks (LSTM-RNN). In this work, we propose an LSTM-RNN based system for fake profile identification in social media. Our model is trained on a large dataset of real and fake profiles, allowing it to learn the patterns and characteristics that distinguish between them. The model is capable of processing sequential data, such as the text of posts or the timeline of a user's activity, and network-level information, such as the connections between profiles and their patterns of interaction. The performance of our model was evaluated on a validation dataset and found to be highly accurate, with low rates of false positive and false negative results. The model was also found to be scalable, efficient, and transparent, making it a promising solution for detecting fake profiles in social media. In conclusion, our LSTM-RNN based fake profile identification system provides a promising approach for detecting and preventing the spread of fake profiles in social media, helping to maintain the integrity of these platforms and protect their users.