

AI-Driven Detection of Fake News Using Social Media Data

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Abstract: *The spread of misinformation, commonly referred most significant problems of the to as fake news, has emerged as one of the digital age, particularly due to the prevalence of social media platforms. The wide-reaching, impacting public perceptions, effects of fake news can be platforms like political races, and community conduct. Data from social media Twitter and Facebook were been used to build an AI solution to identify Fake News. Using Data science approaches, specifically neighbourhood model combined news with Natural Language Processing (NLP) and machine learning model to classify articles as fake or real from text and user engagement. We explore a wide array deep-learning of AI models, from traditional machine-learning algorithms, through networks, to current cutting-edge transformer models. The results show that the efficiency of deep learning BERT-based models outperformed others, evincing in fake news detection. We hope that the proposed approach provides a novel on the social media foundation for effective and real-time fake news detection. Fake news detection in social media through Learning, different artificial intelligence strategies: A systematic review of Machine Natural Language Processing and BERT based News Classification*

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