

Title : Fake News Detection Using Ranking Neural Networks

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ABSTRACT

Traditional fake news detection predominantly relies on binary classification, which categorizes news as either "True" or "False." However, such an approach often oversimplifies the inherent nuances and varying degrees of credibility found in real-world information.

This research proposes an alternative methodology by framing fake news detection as a Learning to Rank (LTR) problem. Using the ListNet algorithm, the model is trained to process news items in triplets (sets of three) to effectively learn and predict their relative scores. This transition from binary classification to relative ranking allows for a more granular assessment of information.

The experimental results demonstrate that the proposed model successfully generates ranking scores that accurately reflect the hierarchy of credibility among news articles.

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