

Introduction

Contributions

- Recognize the label shortage issue and proposed to leverage user reports as weak supervision for fake news detection
- WeFEND framework can automatically annotate news articles, which help enlarge the size of the training set to ensure the success in deep learning models
- Adopting reinforcement learning techniques, WeFEND has the ability of selecting high-quality samples, which further leads to the improvement of the fake news detection performance

Methodology

Overview

- Each sample consists of both news articles and user feedback comments (*reports*)
 - Both are texts, and are transformed into vector representations by word embedding
 - User feedback comments are detailed reasons and evidence provided by user
- A small set of samples are labeled by experts as fake or real
- Our objective is to predict the labels of the unlabeled samples