

Problem Formulation

Fake-news Definition

- *Definition 1: Fake news:* In the context of microblog, a piece of fake news is a news post that is intentionally and verifiably false.
- *Definition 2: Fake-news images:* A fake-news image is an image attached to fake news.
- **Problem 1:** *Given a set of news posts $X = \{x_1, x_2, \dots, x_m\}$, corresponding images $I = \{i_1, i_2, \dots, i_m\}$, and labels $Y = \{y_1, y_2, \dots, y_m\}$, learn a classifier f that can utilize the corresponding image to classify whether a given post is fake news ($y_t = 1$) or real news ($y_t = 0$), i.e., $\hat{y}_t = f(i_t)$.*

Methodology.

Model Overview

