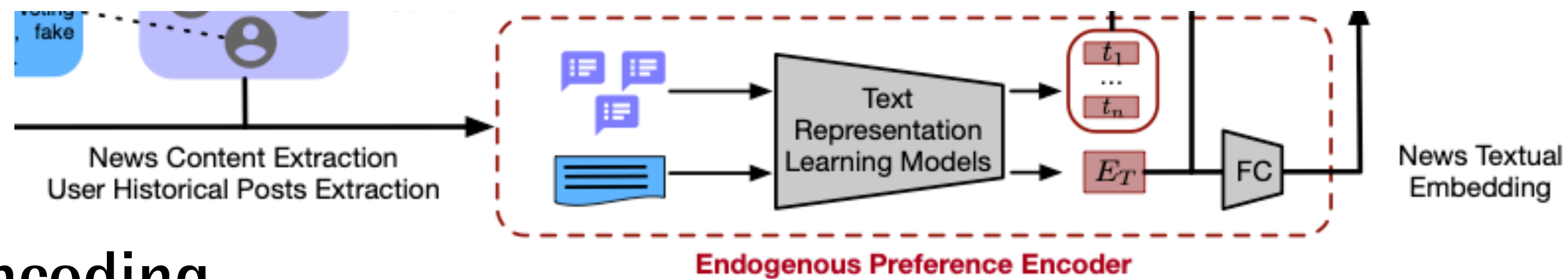# Approach

Endogenous Preference Encoding

- Model the users' personality, sentiment and stance using their historical posts

  - Leverage the historical posts of a user to encode his/her preference implicitly.

- In this paper, authors select the FakeNewsNet dataset which contains news content and its social engagement information on Twitter.

  - Then use the Twitter Developer API to crawl historical tweets of all accounts that retweeted the news in FakeNewsNet

  - Crawl the recent 200 tweets for each account, so as to near 20 million tweets being crawled in total.

Approach

Endogenous Preference Encoding
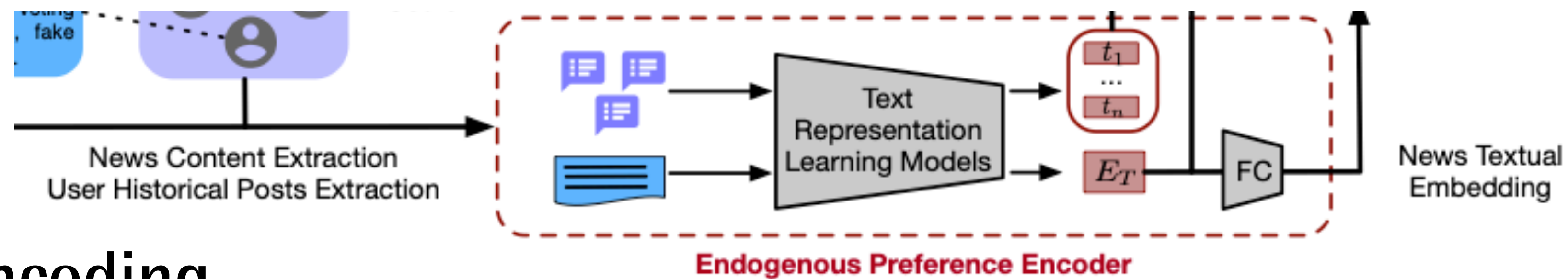
- For inaccessible users (suspended or deleted account), use randomly sampled tweets from accessible users engaging the same news as its corresponding historical posts.

  - Because deleting the inaccessible user will break the intact news propagation cascading and result in a less effective exogenous context encoder.

- Also remove the special characters (e.g. @) and urls, before applying text representation learning methods.