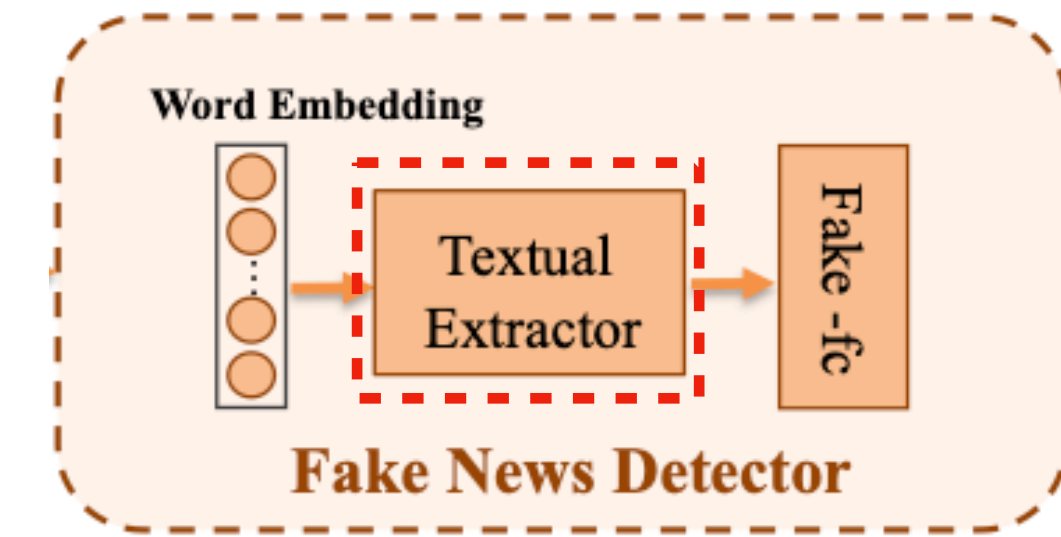
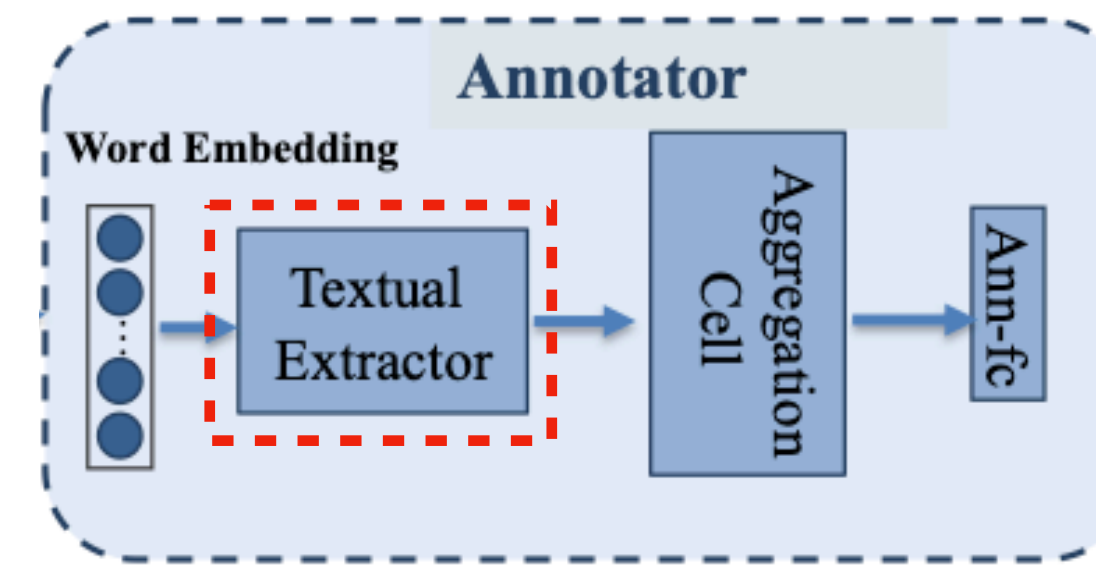


# Methodology

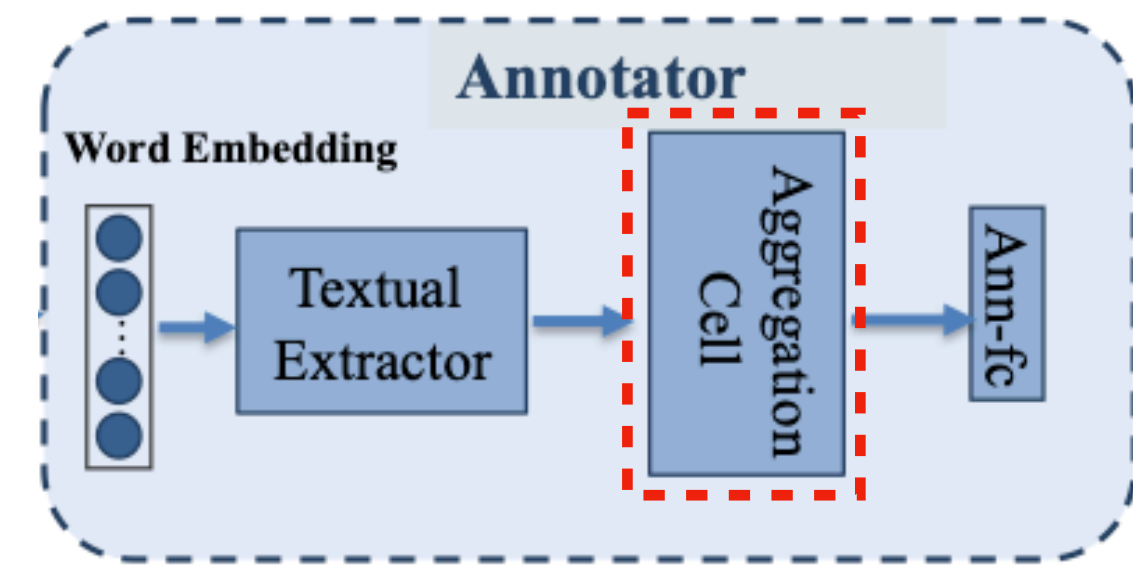
## Textual Feature Extractor

- Use Text-CNN as textual feature extractor
- The input of the textual feature extractor is
  - news content (in fake news detector) or
  - a report message (in annotator)
- The learned representation from textual feature extractor are the input features to annotator and fake news detector



# Methodology

## Automatic Annotation based on Reports



- One news article may have reports from multiple users
- Propose to aggregate features obtained from different reports for one sample.
- Design an aggregation cell consisting of a commutative aggregation function and a fully-connected layer
- The commutative aggregation function, like sum, mean and max-pooling, can combine the permutation invariant input set