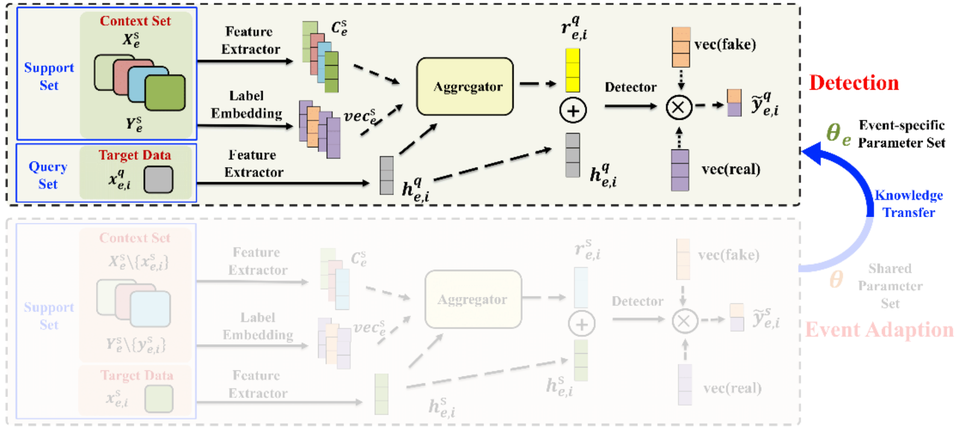
Methodology

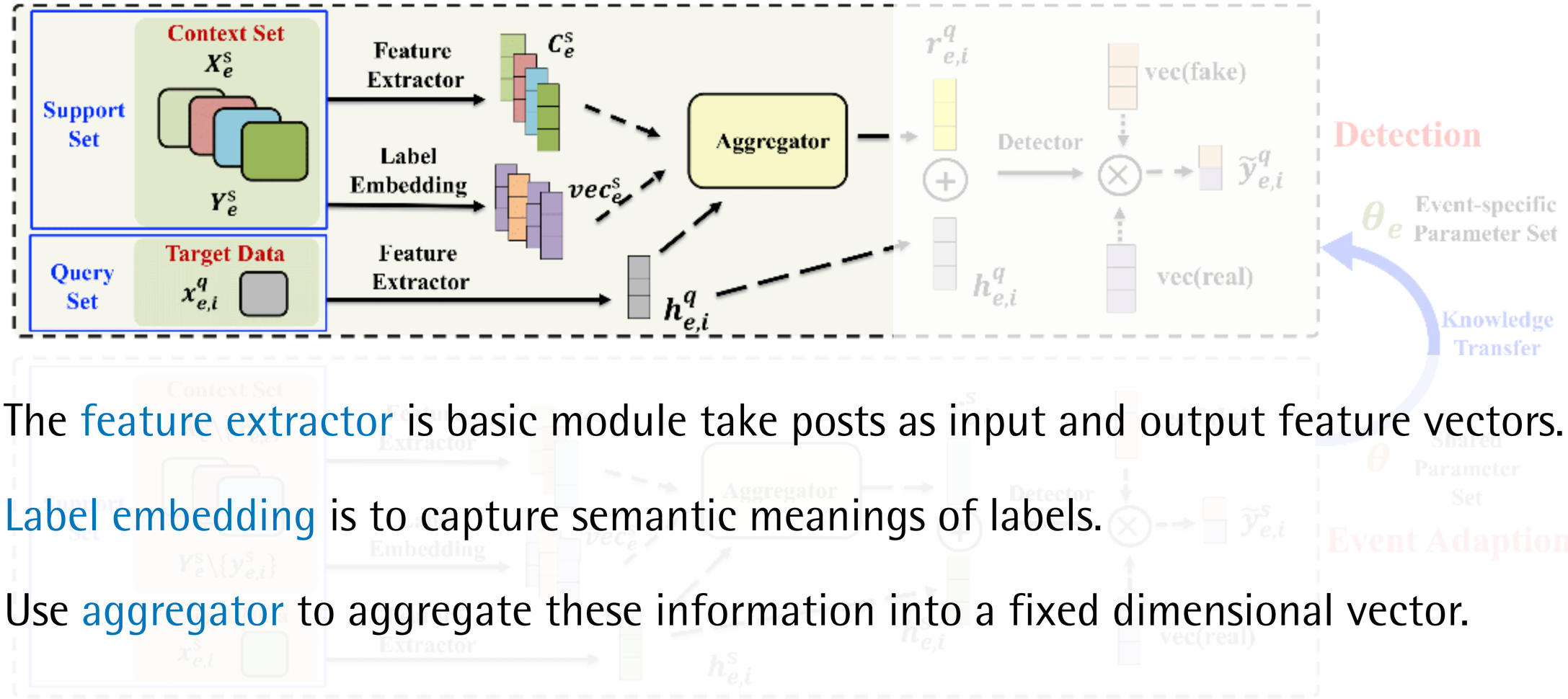
Detection stage



- The proposed model with event-specific parameter set θ_e takes query set $\mathbf{X}_e^q$ and entire support set $\{\mathbf{X}_e^s, \mathbf{Y}_e^s\}$ as input and outputs predictions $\hat{\mathbf{Y}}_e^q$ for query set $\mathbf{X}_e^q$.
- The loss function in the detection stage can be represented as
  - $\mathcal{L}_e^q = \log p_{\theta_e}\left(Y_e^q \mid X_e^s, Y_e^s, X_e^q\right)$
- Through this meta neural process, we can learn an initialization parameter set θ which can rapidly learn to use given context input-outputs as conditioning to detect fake news on newly arrived events.

Methodology

Neural Network Architecture



- The feature extractor is basic module take posts as input and output feature vectors.
- Label embedding is to capture semantic meanings of labels.
- Use aggregator to aggregate these information into a fixed dimensional vector.