

Problem Formulation

Notation

- Core idea of few-shot learning is to use **episodic classification** paradigm to simulate few-shot settings during model training.
- \mathcal{E} : set of news event, $e \in \mathcal{E}$: news event (which has a few labeled posts)
- In each episode during training stage, the labeled posts are partitioned into two independent sets:
 - **Support set**: $\{\mathbf{X}_e^s, \mathbf{Y}_e^s\} = \left\{x_{e,i}^s, y_{e,i}^s\right\}_{i=1}^K$, **Query set**: $\{\mathbf{X}_e^q, \mathbf{Y}_e^q\} = \left\{x_{e,i}^q, y_{e,i}^q\right\}_{i=K+1}^N$
- For each event e , the model leverages its corresponding K labeled posts as support set to conduct fake news detection on given event e .

Preliminary Work

Meta-Learning

Meta Learning

Machine Learning \approx 根據資料找一個函數 f 的能力



Meta Learning

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