

# Experiments

## Baselines

- Fine-tune models (fine-tune by support set of testing set for fair comparison)
  - **VQA**(Visual Question Answering, ICCV'15): aims to answer the questions based on the given images and is used as a baseline for multimodal fake news.
  - **att-RNN**(MM'17): uses attention mechanism to fuse the textual, visual and social context features (remove social part).
  - **EANN**(KDD'18): captures shared features across different events of news to improve generalization ability.

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- Few-shot learning models
  - **CNP**(Conditional neural process, ICML'18): combines neural network and gaussian process by using a small set of input-output pairs as context to output prediction.
  - **ANP**(Attentive neural process, ICLR'19): outputs prediction based on concatenation of learned distribution of context, context features and given input.
  - **MAML**(ICML'17): learn a set of shared model parameters across different tasks which can rapidly learn novel task with a small set of labeled data.
  - **Meta-SGD**(arXiv'17): beside MAML, also learns step sizes and update direction during the training procedure.