Lab
Question Answering

Soumadeep Saha

Description

- CoQA dataset - ~8000 conversations, ~130,000 questions.
- Conversational style with follow-up questions.
- Context paragraph.
- Turnwise questions.
- Answers have a rationale tagged.
- Dev set ~500 conversations.

Story	Once upon a time, in a barn near a farm house, there lived a little white kitten named Cotton. Cotton lived high up [...] farmer's horses slept. **But Cotton wasn't alone in her little home above the barn, oh no.**
Conversation History	What color was Cotton? white Where did she live? in a barn
Question	Did she live alone?
Prediction	no

Method

- Bert-base-uncased (pre-trained) fine-tuned on this dataset.
- Model predicts - span, yes/no, unknown
- Model is trained with span prediction, and rationale prediction.
- Details can be found in `model.py`

Task

- Training, evaluation routines are already implemented.
- Your job is to write (or reuse) code to run live inference.
  - Context stories are provided in `./stories`
  - Take the story, and ask user for questions.
  - Convert the paragraph + question into format acceptable for the model.
  - Run inference and generate output.
  - Produce output and ask for further questions.
  - Bonus points if answers come with rationale.
  - Questions can depend on past conversation.

Good luck!

Feel free to ask for help.