

Q A

answer:

Answer is a simply a word.

Yes/No 对/错 choices

multiple choices

knowledge source

question choices

span in source / extraction-based

SQuAD

DRCD

free answer generation

MS MARCO

DuReader

Seq2seq
Snet

(微软)

(百度)

~~seq2seq~~ extraction-based method. (let seq2seq easy 简单)

→ [CLS] or Yes/No or train answer verifier → Yes/No

DRQA: retriever, reader

V-net: vote 最多 no answer

Types of questions

Simple question: match & extract

query-to-context attention } BiDAF
context-to-query attention

Complex question: reasoning

Dataset: ~~Quora~~ Pro. Hoppot QA, DROP

dialogue QA

Solution: multiple-hop → Memory network

how many hops do we need?

match → extract
+
match → extract

ReasonNet

D Q1

b Q2

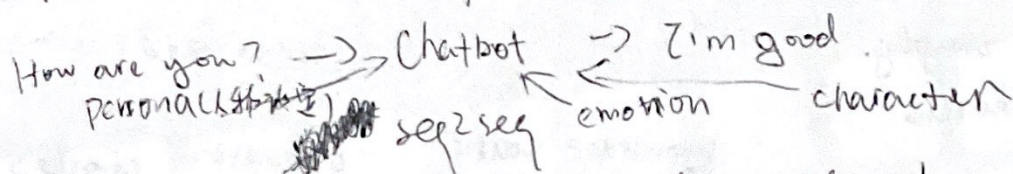
D Q3

attention

Graph Neural network

fine tune with Bert by 不需要
self-attention 全连接网络

Chatbot. controllable response generation



challenge test. 1. The same input can have different response.

2. Inconsistent. 前言不对后语

3. usually chooses short and boring sentences.

Approach 1: directly fine-tune.
limited data is easy to overfit.

MAML: initial parameters only need a few dialogue.

Approach 2: control by condition! Samples to adapt.

persona-based model (16).

data: persona-chat

TransferTransfo

Approach 3: monologues only

Rank

multiply

Pseudo data. 100 response → input

GPT-2. train Simple ToD (end to end)

User input

belief state

DB search

Action

response

Next step. control the response of interlocutor

Dialogue state tracking (DST) as QA

state: summarization. As if (key, value)

dataset:

MultiWOZ 2.0 hotel

SGD (有些 artificial)

train. attraction. restaurant. taxi.

infinite values. as QA
time, phone number