Week1-1 과제

Paperswithcode에서 NLP sub task 중에 2개를 선택하여 본인 블로그에 정리해보세요. task 별로 아래 3가지 항목에 대해서 정리하세요.

1. Dialogue Generation

<u>문제정의</u>

시리, 알렉사 같은 가상 비서가 사용자의 요청에 대한 응답으로 적절한 답변 반환해야 하는 텍스트 생성 문제

데이터 소개

Persona-Chat

| Persona 1 | Persona 2 |
|----------------------------------|---|
| My wife does not like me anymore | I am an artist I have four children I recently got a cat I enjoy walking for exercise I love watching Game of Thrones |

[PERSON 1:] Hi

[PERSON 2:] Hello! How are you today?

[PERSON 1:] I am good thank you, how are you.

[PERSON 2:] Great, thanks ! My children and I were just about to watch Game of Thrones.

[PERSON 1:] Nice! How old are your children?

[PERSON 2:] I have four that range in age from 10 to 21. You?

[PERSON 1:] I do not have children at the moment.

[PERSON 2:] That just means you get to keep all the popcorn for yourself.

[PERSON 1:] And Cheetos at the moment!

[PERSON 2:] Good choice. Do you watch Game of Thrones?

[PERSON 1:] No, I do not have much time for TV.

[PERSON 2:] I usually spend my time painting: but, I love the show.

Table 2: Example dialog from the PERSONA-CHAT dataset. Person 1 is given their own persona (top left) at the beginning of the chat, but does not know the persona of Person 2, and vice-versa. They have to get to know each other during the conversation.

각 대화는 인공 페르소나(가상 인물)을 가정한 두 명의 크라우드 소싱 작업자 사이에서 수행되었다. 가상 인물들의 특징은 3~5개 문장으로 설명됨.

• 페르소나1, 페르소나2의 프로필 문장과 각 페르소나 간 교차 대화로 구성됨

• 훈련 데이터: 8939개의 완전한 대화

검증 데이터 : 1000개 대화테스트 데이터 : 968개 대화

SOTA 모델 소개

P^2 Bot

주요 키워드 : 인간과 유사한 응답 모방이 아닌 상대 이해 기반 모델링, 상호 페르소나 인식을 통합해 개인화된 대화 생성 품질 향상

2. Text Summarization

문제정의

Week1-1 과제 1

원본 문장에서 중요한 정보를 추출하고 요약하는 문제

데이터 소개

WikiHow

How to Help Save Rivers Methods Reducing Your Water Usage This guicker showers to conserve water is to cut down on your shower time. Practice cutting your showers to conserve water. (One easy way to conserve water is to cut down on your shower time. Practice cutting your showers down to 10 minutes, then 7, then 5. Challenge yourself to take a shorter shower revery day. Washing machines take up a lot of water and electricity, so running a cycle for a couple of articles of clothing is the practice cutting your showers down to 10 minutes, then 7, then 5. Challenge yourself to take a shorter shower machines take up a lot of water and electricity, so running a cycle for a couple of articles of clothing is the practice cutting your showers down to 10 minutes, then 7, then 5. Challenge yourself to take a shorter shower revery day. Washing machines take up a lot of water and electricity, so running a cycle for a couple of articles of clothing is the shorter shower to conserve water. Washing the products are the practice cutting your showers the practice cutting your showers the conserve water washing machines take up a lot of water and electricity, so running a cycle for a couple of articles of clothing is the practice and the practice cutting your showers the conserve water. Washing the practice cutting your showers and faucest turned off as much as possible. When you need them, use them sparingly. Summary 1: Summary 1: Select biodegradable deaning products. Any chemicals you use in your home end up back in the water supply. Choose natural soaps or creater your own cleaning and districting agents and of visings, Isaling solds, lemon juce, and other natural products. These products have far lest of a negative impact if they reach a river. New products take way for a water to make than recycled products. Reuse water you washen possible. If you need to buy something, of for products made out of recycled paper or other reused material. Simmary 2: Summary 2: Summary 2: Summary 3: Select biodegradable cleaning pro

다양한 저자가 다양한 분야에 관해 작성한 온라인 지식을 기반으로 하는 데이터셋

• 230,000 개 이상의 문서와 요약 쌍을 제공

SOTA 모델 소개

BertSum

주요 키워드: 문장 분할 및 구두점 복원, 지능형 가상 비서로 통합될 것을 기대

Week1-1 과제 2