Integrating knowledge in Language Model ex. I amuse Model Masked LM I

Language Model (Masked LM I [MASK] to the [MASK].

Standard LM The students opened their books.

- predictions generally make sense, but are not all factually correct.

Dueto:

- 1) Unseen facts
- 2) Rare facts
- 3) Model sensitivity

かれりま

1) Querying traditional knowledge bases

, 注注 dataset · Manual annotation 型。 · Complex NIP pipeline型。

2) Averying LMs as knowledge bases Moreflexible 3/2/72

hard to interpret trust, modely

Knowledge主 LMOII 产龄生 时时

- 1) Add pretrained entity embeddings
- 2) Use an external memory
- 3) Modify the training data

ERNIE - entity embedding

- 外包端包 BERT是 鄭

ex. Bob Dylan wrote Blown in the Wind in 1962.

on the wiki data 사色的的 尼加特

T-Encoder > K-Encoder

KGLM - KG SETON 423

KNN-LM

一의十六世长城 KNU島的 BURD EUT CHARLE BEBER LMASS

· KNN2+ LM prob 包 部門 鹅的 件各 补后

P(y |z) = 2 Penn (y |z) + (1-2)Pen(y |z)
- pretraining = 220 out 210 E20 m Knowledge = 20

WKLM - 35%) the knowledge et false knowledge 7484713 - Weakly supervised Knowledge Pretrained LM

BERT of masking stategy this chose see are 2501452 Span et 922 masking forthe 25253

Salient span masking

- Named entity = 48th Salient span ANS
- येरिकेमिट entity यह क्रिया ये
- QA tosk on 与当

REALM: Retrieval-Augmented LM-Training
- Masking Bottie 新知 QA tosh 你如

LAMA Probe

- 동일setting oil 서 하습해 어떤 LM이 가장 많은 정보 환화는지 버린