



پردازش زبان طبیعی

ارائه دهنده: مهدی دارونی

بهار ۱۴۰۱

Hello everyone, if you're reading this, that means you're interested in attending CASS-AI day! This event is all about machine learning and artificial intelligence. There will be three presentations given by experts in the field: Mehdi Darooni on natural language processing, Hajar Mazaheri on sentiment analysis, and Yasin Fakhar on image processing.

This is a great opportunity to learn more about these cutting-edge technologies and their applications. The presentations will be followed by a Q&A session so don't hesitate to ask any questions you may have. I'm sure everyone who attends will find the event informative and enjoyable!

✕ 🔍



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Cass-AI Audience

Friendly

Event: CASS-AI day

Speakers: Mehdi Darooni, Hajar Mazaheri, Yasin Fakhar

Presentations: NLP, Sentiment Analysis, Image Processing

129/1000

Hello everyone!
Today! This evening
presentation
processing,
processing.

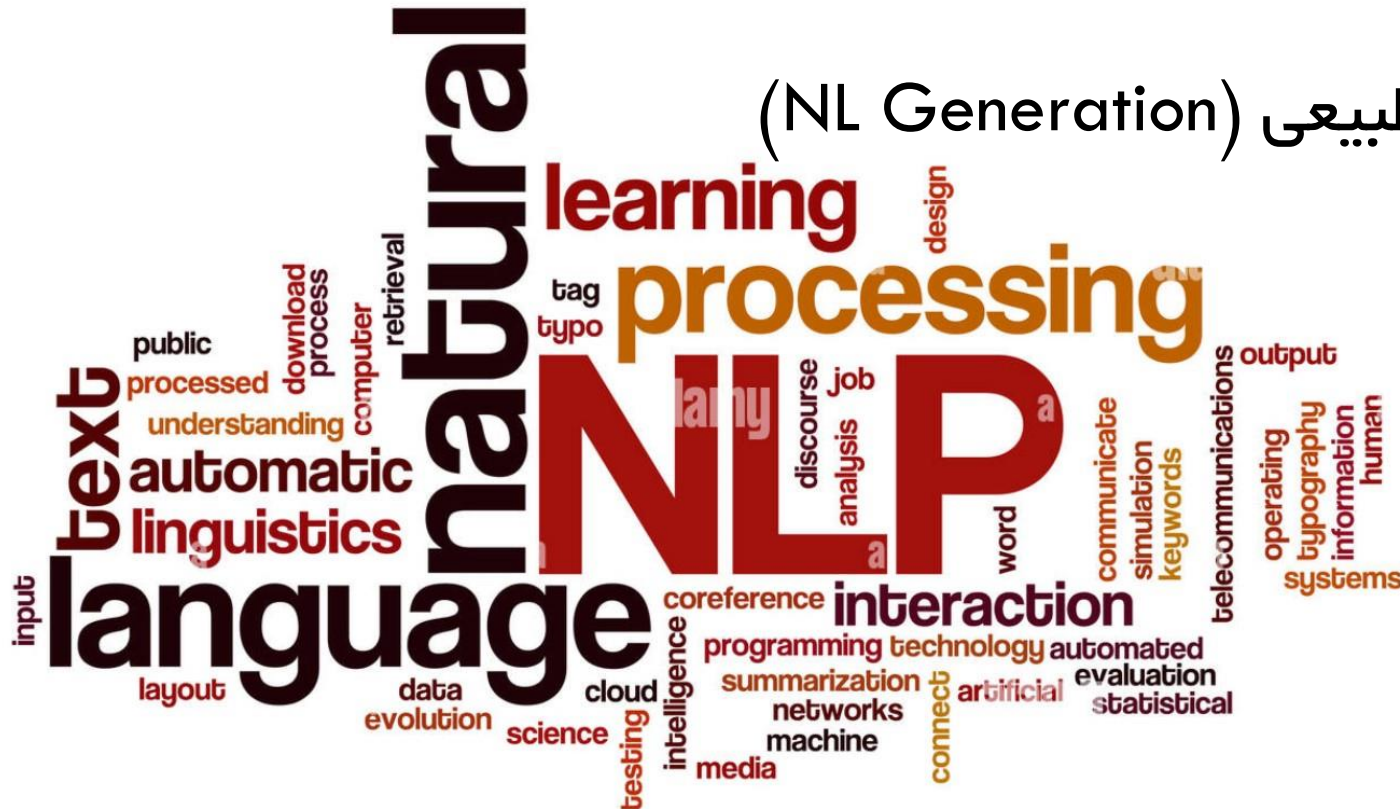
This is a great applications any question informative

Write new

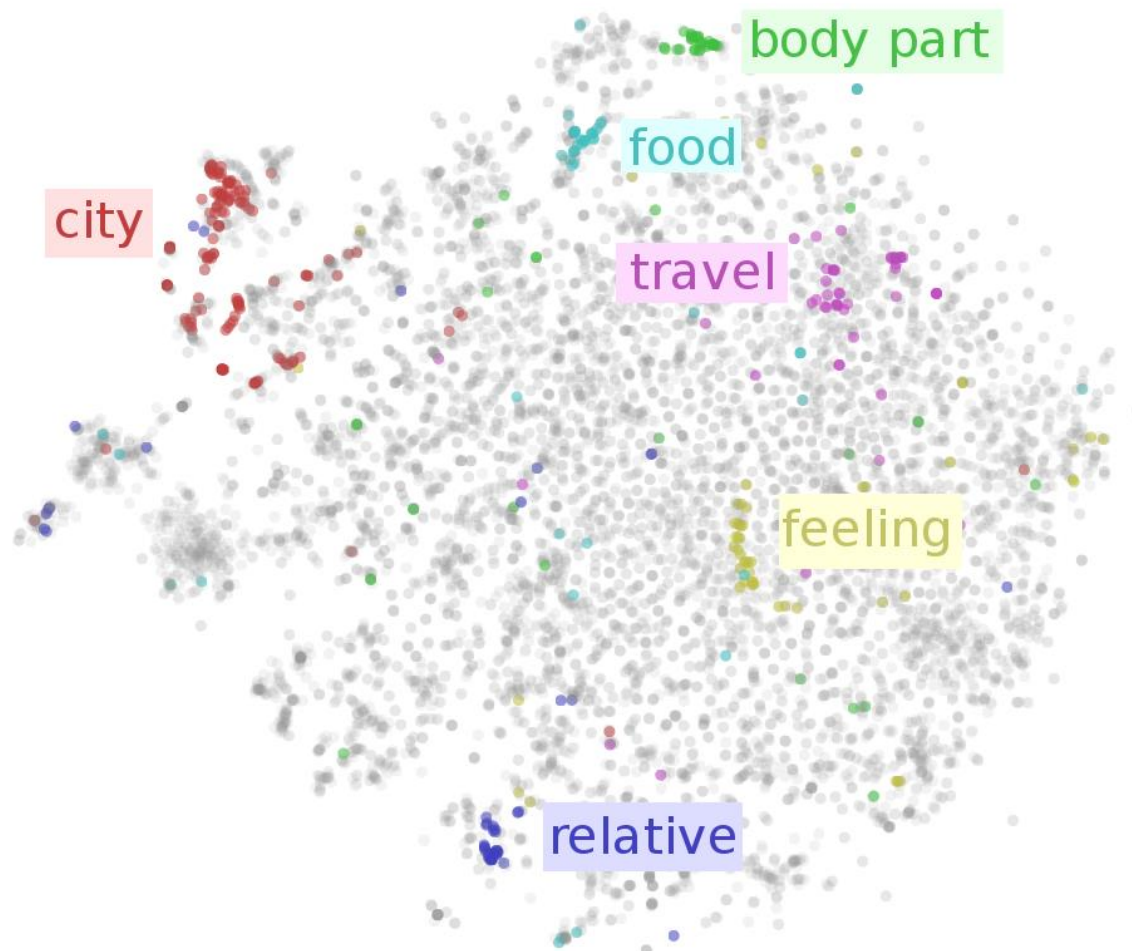
NLP چیست؟

– فهم زبان طبیعی (NL Understanding)

– تولید زبان طبیعی (NL Generation)



تعییه سازی کلمات (Word Embedding)



تعییه سازی کلمات (Word Embedding)

one-hot Enoding

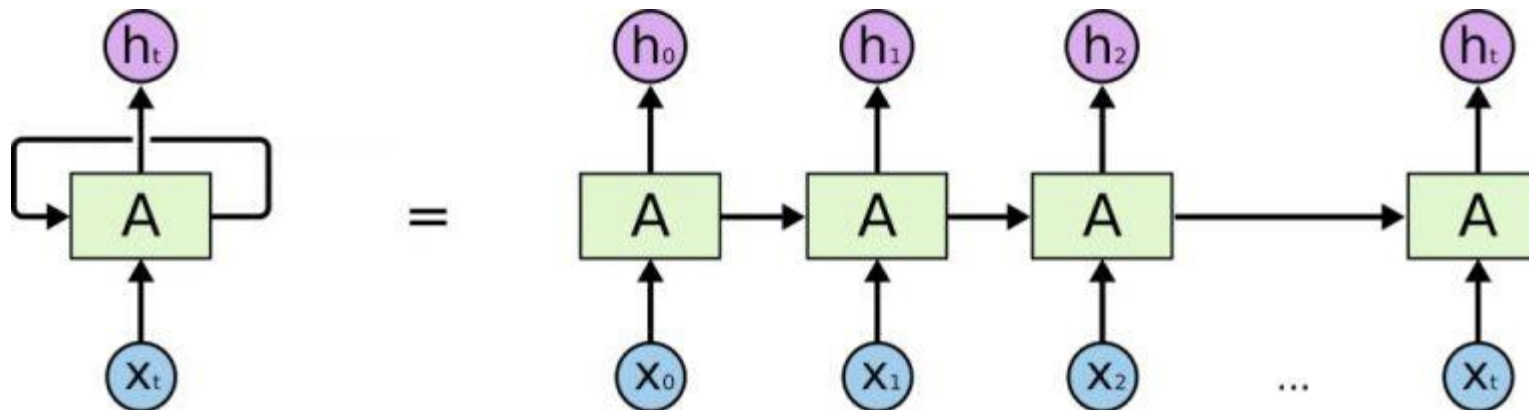
کوله کلمات (Bag of words)

Word2Vec

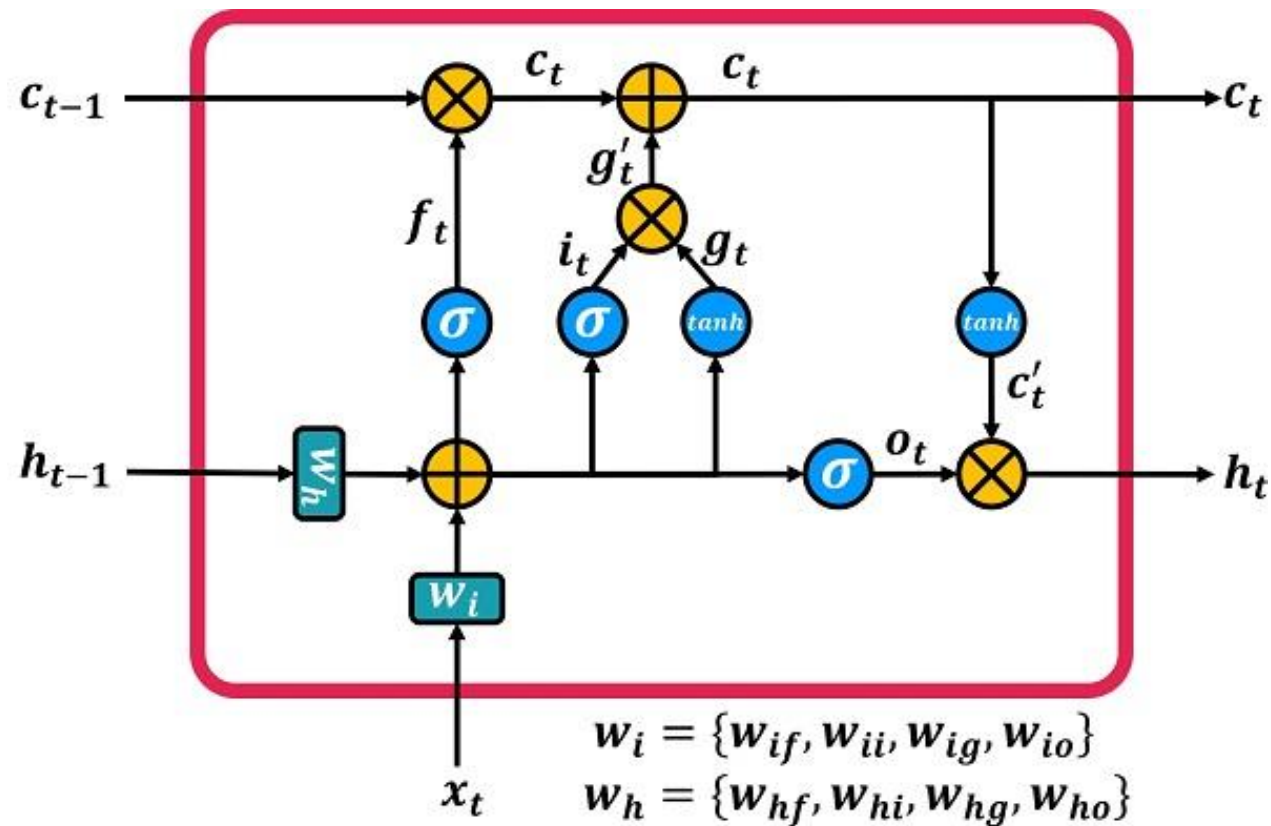
GloVe

تولد بازگشتی‌ها

RNN



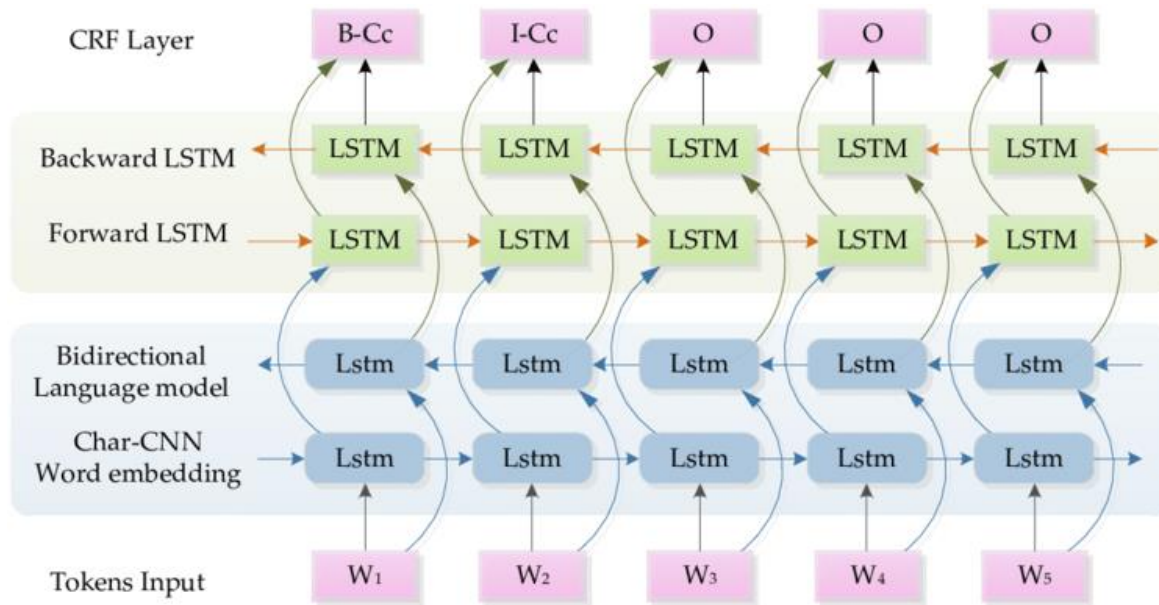
LSTM: فرزند خلف RNN



LSTM

LSTM: فرزند خلف RNN

ELMo

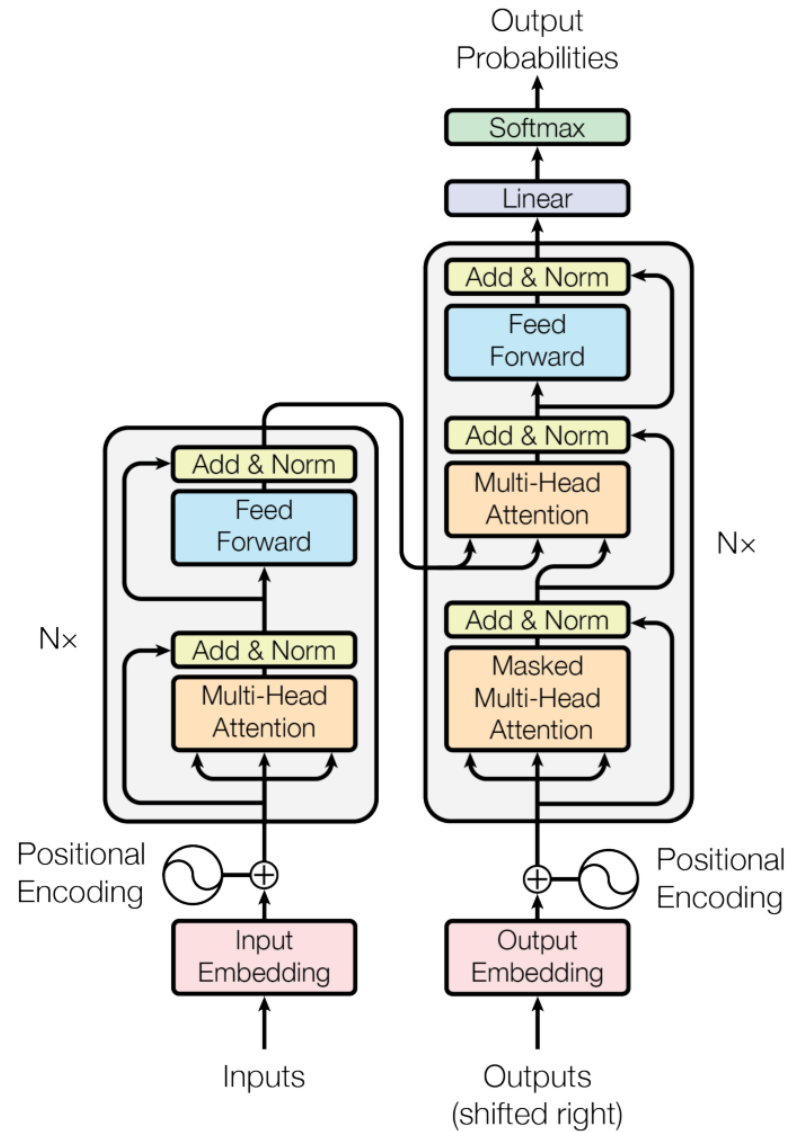


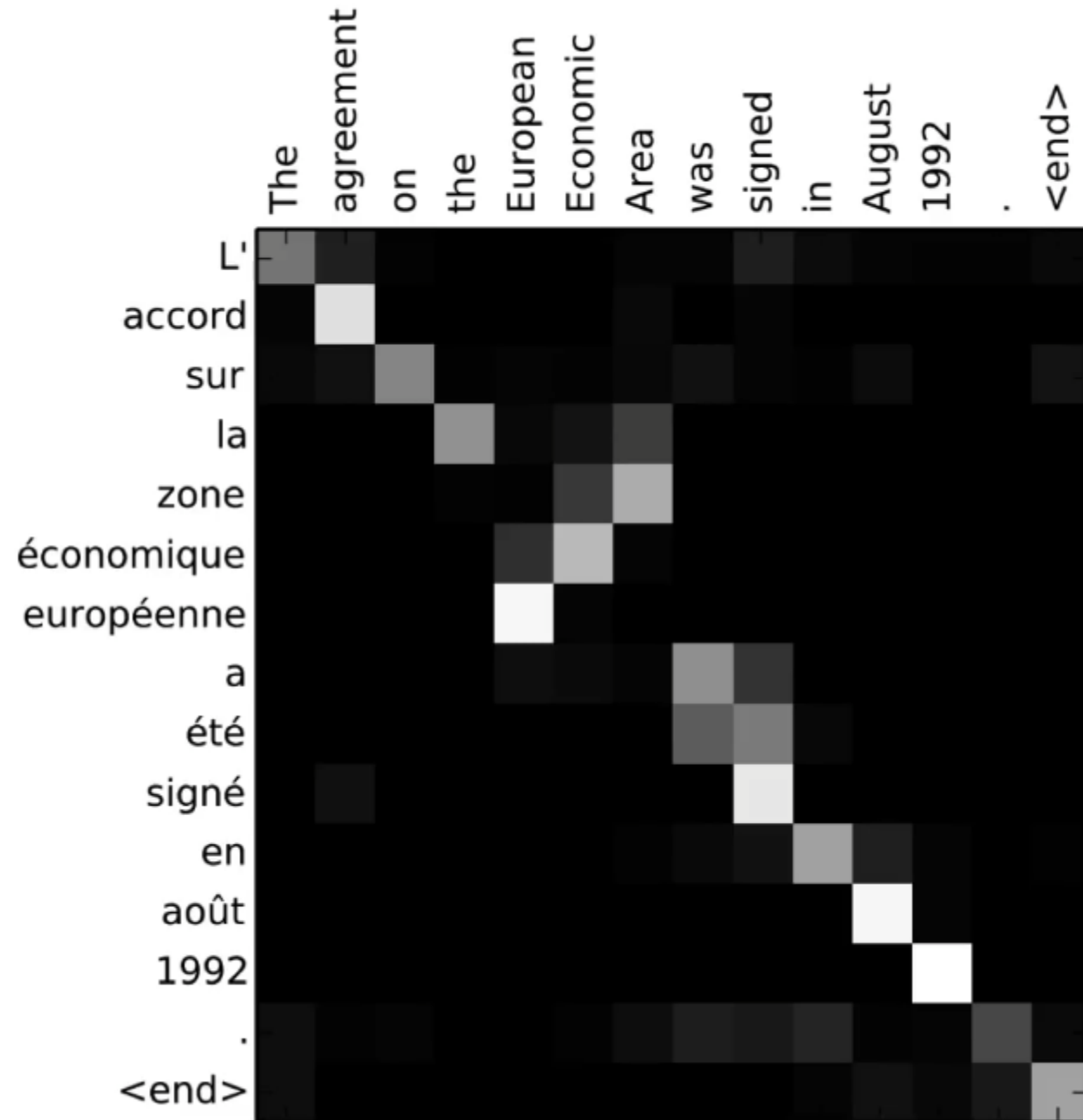
ترنسفورمرها: آغازگر عصری جدید در NLP



معماری ترنسفورمر

Attention is all you need (2017)





من در ایران به دنیا آمده‌ام و خیلی خوب بلدم که صحبت کنم.

GPT

GPT

GPT

بلبل زبان

سرودها شعر متن بیت

نوشتن متن

چند کلمه یا سطر نخستین یک متن را وارد کنید و بلبل زبان نوشته شما را ادامه می‌دهد.

نمونه

رویداد هوش مصنوعی کاساندرا

خوبه، ادامه بده یکی دیگه بنویس

رویداد هوش مصنوعی کاساندرا با نام تجاری [فُلان] ، با استفاده از هوش مصنوعی [فُلان] ، یک سیستم هوش مصنوعی مبتنی بر شبکه ، ایجاد می‌کند که در آن ، یک الگوریتم با استفاده از هوش مصنوعی [فُلان] ، به طور پیوسته و با سرعت زیاد توسط یک ماشین هوشمند هدایت می‌شود .
هوش مصنوعی [فُلان] که در آزمایشگاه‌های هوش مصنوعی ارائه می‌شود ، از یک الگوریتم [فُلان] با نام تجاری [فُلان] و یک الگوریتم [فُلان] با نام تجاری [فُلان] بهره می‌برد .

کپی متن کامل در کلیپ‌بورد

سرودهای بلبل زبان را در شبکه‌های اجتماعی دنبال کنید

تلگرام | توئیتر | اینستاگرام

GPT-3



GPT-3

Describe a layout.

Just describe any layout you want, and it'll try to render below!

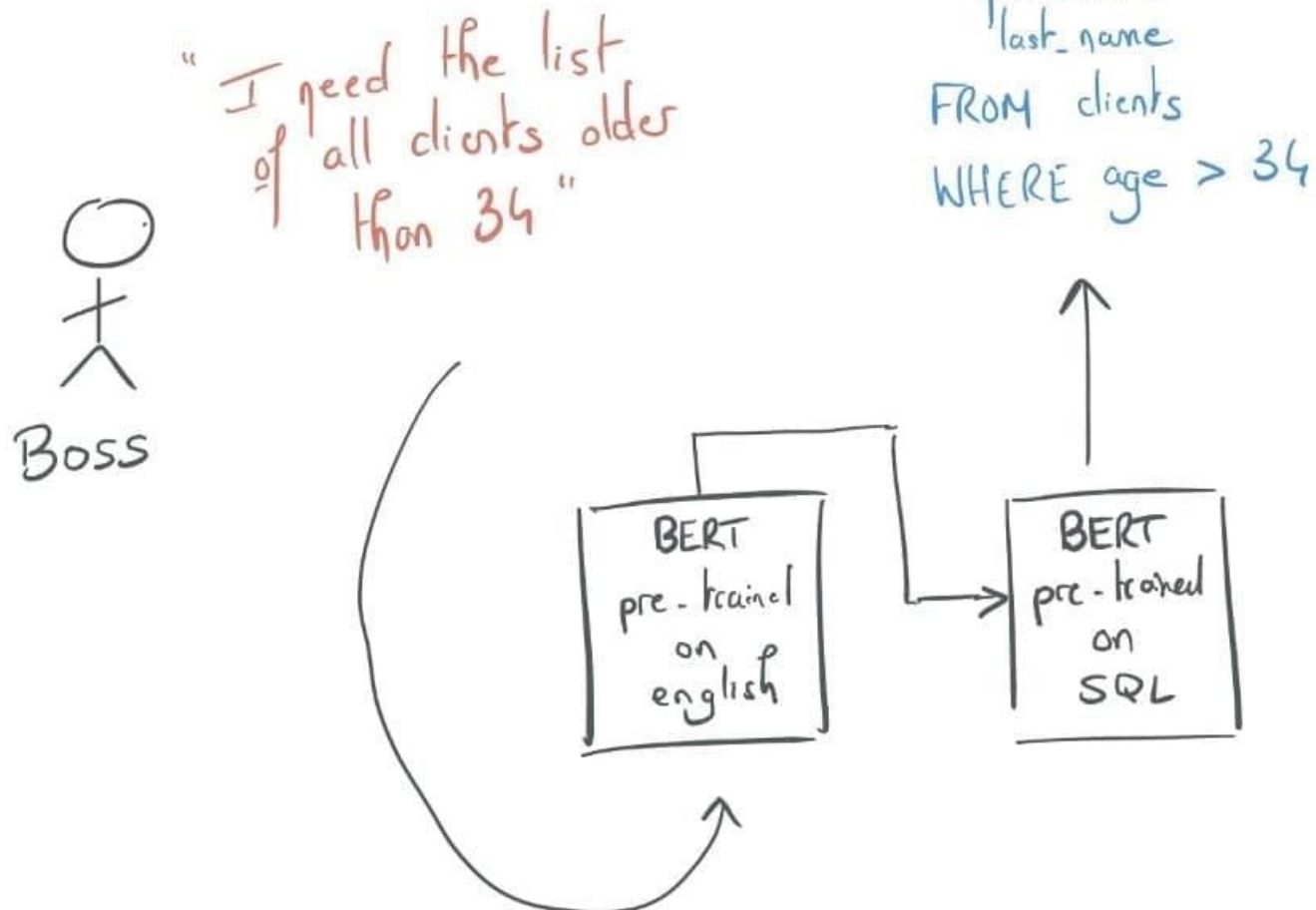
A div that contains 3 buttons each with a random color.

Generate

BERT وارد می‌شود...



BERT وارد می‌شود...



جنگ ایده‌ها یا جنگ سیلیکون‌ها؟؟

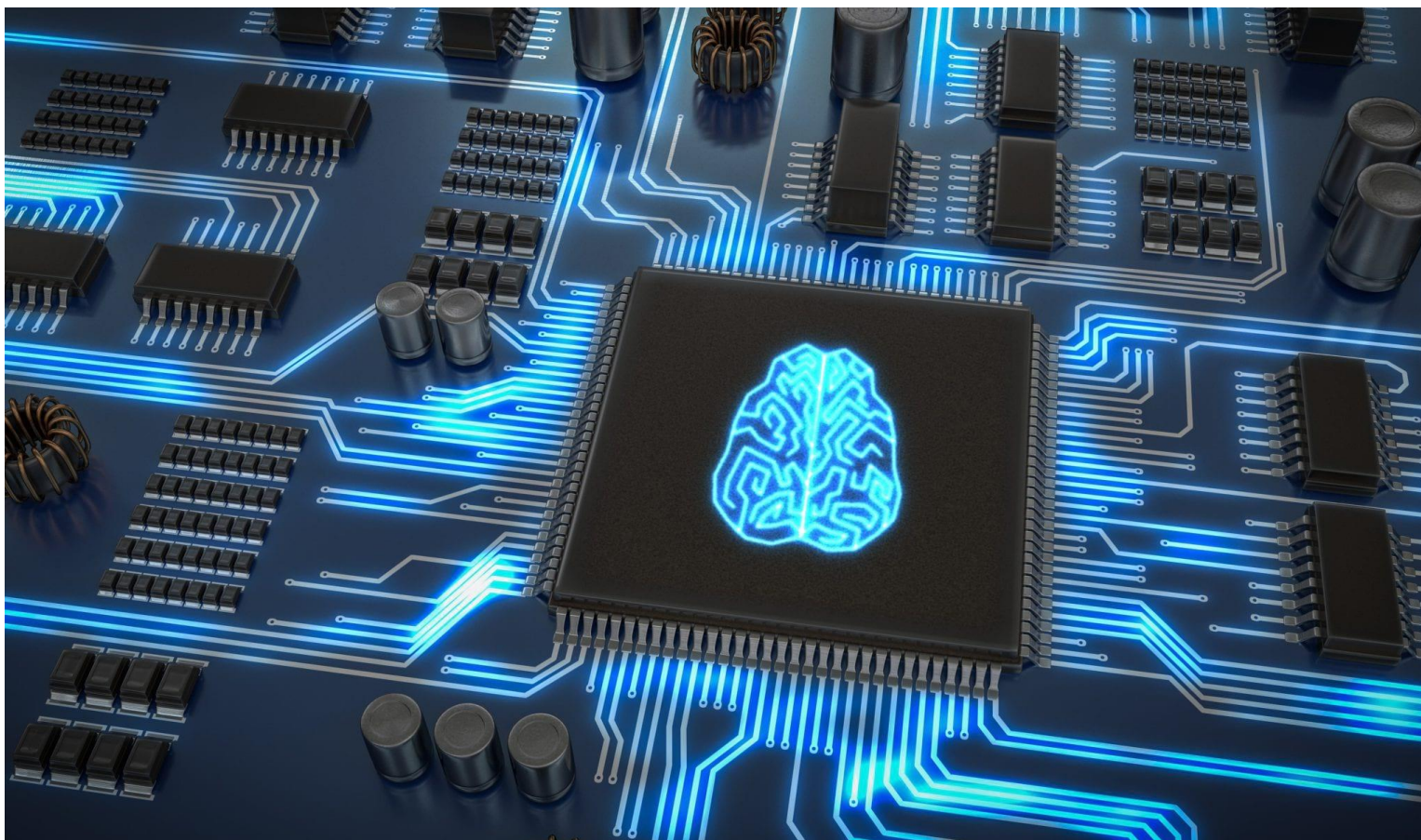
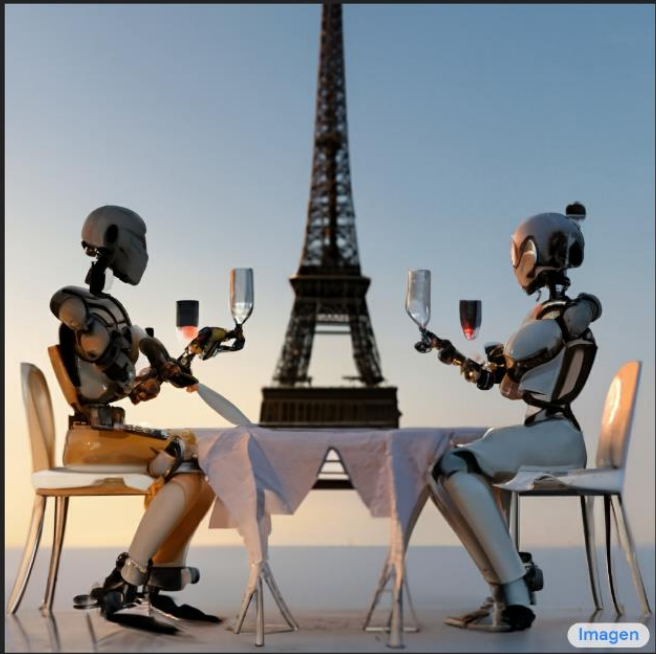


Imagen: تصور از تو، تصویر از گوگل!

A robot couple fine dining with Eiffel Tower in the background.



A dog looking curiously in the mirror, seeing a cat.





چرا هنوز انسان‌ها بهترند؟

Inductive Biases for Deep Learning of Higher-Level Cognition

Anirudh Goyal

Mila, University of Montreal

ANIRUDHGOYAL9119@GMAIL.COM

Yoshua Bengio

Mila, University of Montreal

YOSHUA.BENGIO@MILA.QUEBEC

Abstract

A fascinating hypothesis is that human and animal intelligence could be explained by a few principles (rather than an encyclopedic list of heuristics). If that hypothesis was correct, we could more easily both understand our own intelligence and build intelligent machines. Just like in physics, the principles themselves would not be sufficient to predict the behavior of complex systems like brains, and substantial computation might be needed to simulate human-like intelligence. This hypothesis would suggest that studying the kind

چرا هنوز انسان‌ها بهترند؟

Experience Grounds Language

Yonatan Bisk*

Ari Holtzman*

Jesse Thomason*

Jacob Andreas

Yoshua Bengio

Joyce Chai

Mirella Lapata

Angeliki Lazaridou

Jonathan May

Aleksandr Nisnevich

Nicolas Pinto

Joseph Turian

Abstract

Language understanding research is held back by a failure to relate language to the physical world it describes and to the social interactions it facilitates. Despite the incredible effectiveness of language processing models to tackle tasks after being trained on text alone, successful linguistic *communication* relies on a shared experience of the world. It is this shared experience that makes utterances meaningful.

Natural language processing is a diverse field, and progress throughout its development has

Meaning is not a unique property of language, but a general characteristic of human activity ... We cannot say that each morpheme or word has a single or central meaning, or even that it has a continuous or coherent range of meanings ... there are two separate uses and meanings of language – the concrete ... and the abstract.

Zellig S. Harris (Distributional Structure 1954)

trained solely on text corpora, even when those corpora are meticulously annotated or Internet-scale.

You can't learn language from the radio. Nearly every NLP course will at some point make this claim. The futility of learning language from lin-



با تشکر از توجه شما