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Why Self-Attention?
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CONTENT:
Self-attention, sometimes called intra-attention is an attention mechanism relating different
positions of a single sequence in order to compute a representation of the sequence. Self-
attention has been used successfully in a variety of tasks including reading comprehension,
abstractive summarization, textual entailment and learning task-independent sentence

End-to-end memory networks are based on a recurrent attention mechanism instead of sequencealigned recurrence and have been shown to perform well on simple-language question answering and language modeling tasks [34].

To the best of our knowledge, however, the Transformer is the first transduction model relying entirely on self-attention to compute representations of its input and output without using sequence- aligned RNNs or convolution. In the following sections, we will describe the Transformer, motivate self-attention and discuss its advantages over models such as [17, 18] and [9].

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representations [4, 27, 28, 22].

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4 Why Self-Attention

In this section we compare various aspects of self-attention layers to the recurrent and convolutional layers commonly used for mapping one variable-length sequence of symbol representations (x1, ..., xn) to another sequence of equal length (z1, ..., zn), with $xi, zi \in Rd$, such as a hidden layer in a typical sequence transduction encoder or decoder. Motivating our use of self-attention we consider three desiderata.

One is the total computational complexity per layer. Another is the amount of computation that can be parallelized, as measured by the minimum number of sequential operations required. Similarity L2 Score: 0.27881306

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What is the LoRA?
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An ecosystem. LoRA is a practically useful tool that gives (almost) anyone the power to train a specialized LLM over their data. As a result, LoRA has been widely studied within the AI research community, leading to a variety of extensions, alternatives, and practical tools to go along with it. One of the most notable extensions is QLoRa, which combines LoRA with model quantization to further reduce the memory overhead of LLM fnetuning. However, this reduction in memory overhead comes at the cost of a slight decrease in training speed.

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Bibliography
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Tied-LoRA [29]: leverages weight tying to further improve the parameter efciency of LoRA.

GLoRA [30]: extends LoRA to adapt pretrained model weights and activations to each task in addition to an adapter for each layer.

Given that so many LoRA-inspired techniques exist, there are probably a few notable extensions that are missing from the list above. If you are aware of any other techniques that are worth including, let me know in the comments!

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Takeaways

We should now have a working understanding of LoRA, the several variants of this technique that have been proposed, and how these ideas can be applied in practice. LoRA is arguably the most widely-used practical tool for creating specialized LLMs, as it democratizes the fnetuning process by significantly reducing hardware requirements. Some important takeaways are outlined below.

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Dokuz eylül üniversitesinde kaç adet fakülte var?
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Dokuz Eylül Üniversitesi bugün; İzmir'in dört bir yanında; 10 Enstitü, 18 Fakülte, 2 Yüksekokul, 1 Konservatuvar, 6 Meslek Yüksekokulu, 2'si Uygulama ve Araştırma Hastanesi olmak üzere toplam 42 Uygulama ve Araştırma Merkezi ile bilimsel araştırma ve yükseköğretim görevini, kaliteli toplumsal hizmet anlayışı ile sürdürmektedir.

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YÖK tarafından, 'Araştırma Kapasitesi', 'Araştırma Kalitesi' ve 'Etkileşim ve İş Birliği' başlıkları altındaki 32 gösterge kapsamında yapılan değerlendirmede gösterdiği yüksek performansla başarılı bir sınav vererek üniversitelerin 'şampiyonlar ligi'ne giren Dokuz Eylül Üniversitesi, 13.12.2021 tarihi itibari ile sunduğu geniş araştırma olanakları, uluslararası ve ulusal projelerdeki başarısıyla "Araştırma Üniversitesi" unvanı almıştır. Similarity L2 Score: 0.25700557

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