Module 4.4

We have seen two mechanisms for "routing" information in neural networks: convolution and attention. Both of these approaches can be used for natural language inputs, but they have different properties in what features they will learn about the underlying data. This idea that the architecture of the model impacts what the network learns is often known by the technical term "Inductive bias".

These questions compare what attention learns versus convolution.

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1 1 point

Attention is limited in that it can only compare words that are near each other in the input.

○ True

○ False

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2 1 point

Attention by itself knows to compare words based on the local words surrounding them.

○ True

○ False

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3 1 point

Attention is faster to compute than convolution.

○ True

○ False