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Probabilistic Language Models in Cognitive Neuroscience: Promises and Pitfalls

Kristijan Armeni, Roel Willems, Stefan Frank

Highlights

1. Aspects of incremental language comprehension can be modeled with probabilistic language models.
2. Formal linguistic information content is used to build predictors of cognitive processing.
3. We review fMRI and M/EEG studies that analyzed comprehension data with language models.
4. We discuss advantages, potential pitfalls and future challenges of the approach.

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