

[Lec 19]

Extremly large language models and GPT-3

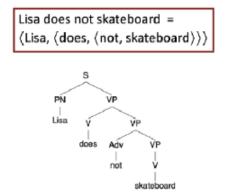
- GPT2: Language models: unsupervised multitask learners
 - o not needed fine-tuning
 - provides good outputs
- GPT3: Extremely large many parameters
 - o sparse attention
 - meta-learning method of training

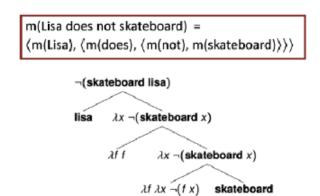
pro) good at language modeling (ex: story completion)

• included "in-context" learning: can be applied to new tasks

Compositional representations and systematic generalization

- Systemacity Applicable patterns in sentences humans understand
- Compositionality meaning of words & its composition determine a sentence
- Tree Reconstruction Error : Measure of compositionality
 - models gets more compositional after deep lengths of training
 - o pre-training helps for generalization but doesn't solve the problem





Improving how we evaluate models in NLP

• Dynamic benchmarks

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