Week 19

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Lecture 18 - Future of NLP + Deep Learning
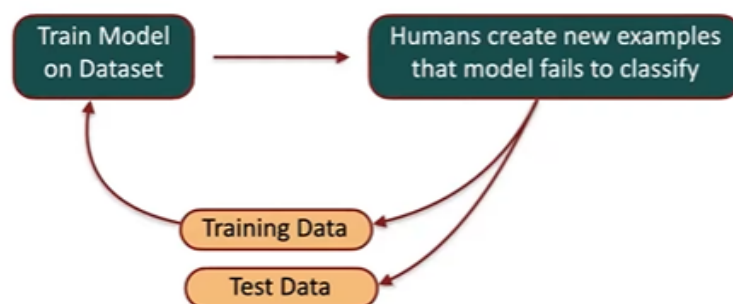
1. Extremly large language models and GPT-3

- GPT는 매우 많은 파라미터를 가지고 있으므로 아주 큰 모델임
- GPT-3는 다른 모델보다 language modeling을 잘 함 (ex. story completion)
- 유연한 "in-context" learning을 도입 → 새로운 task에도 빠르게 적응 가능

2. Compositional representations and systematic generalization

- Tree Reconsturction Error: Measure of compositionality?
- 모델이 학습할수록 representation은 점점 더 compositional 해진다
- Pre-training helps for compositional generalization, but doesn't solve it

3. Improving how we evaluate models in NLP

- Dynamic benchmark

- Main Challenges: Ensuring that humans are able to come up with hard examples and we are not limited by creativity.
- Current approaches use examples from other datasets for the same task as prompts

4. Grounding language to other modalities

- Text + non-text