

BERT: Pre-training of Deep Bidirectional Transformers for Language Understanding



Improving Language Understanding by Generative Pre-Training

RoBERTa: A Robustly Optimized BERT Pretraining Approach



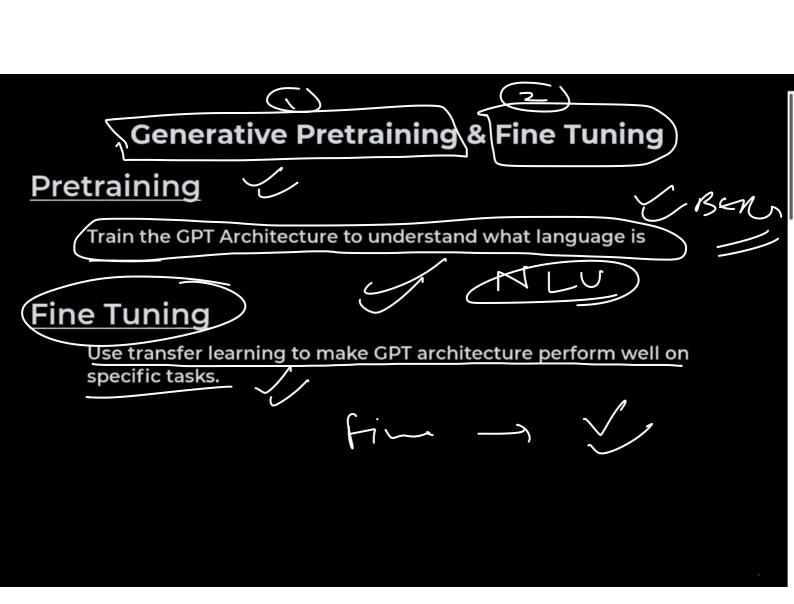


Language Models are Unsupervised Multitask Learners

DistilBERT, a distilled version of BERT: smaller, faster, cheaper and lighter

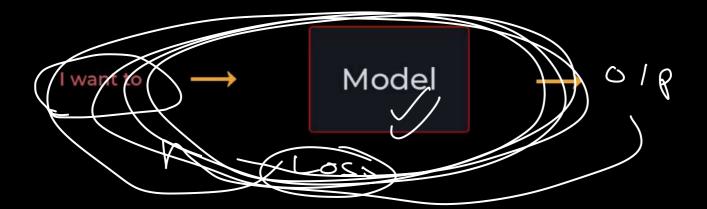






Generative Pretraining & Fine Tuning Pretraining

Train the GPT Architecture to understand what language is





Chat

1. Still too much data required!

<u>Task</u>

Data Requirements

Machine Translation ~100,000 samples

Question-Answer ~100,000 samples

Text Summarization ~100,000 samples

Sentence Similarity ~100,000 samples

Issues with Fine Tuning



1. Still too much data required!

2. Overfitting is easy

road Pretrained Dataset

Narrow Fine Tuned Dataset

-1.31 -0.38 0.32 -0.52 -0.28 -0.58 -1.53 0.14 0.39 -0.21 0.56 -0.29 0.19 0.38 -0.42 -0.67 -0.09 0.17 -0.55 0.74 -1.37 -0.88 -0.35 -2.31

