

11/11/24

CPT 1 (Paper)

Abstract : general pre training \rightarrow discriminative fine tuning

While fine tuning \rightarrow use task aware input transformations to achieve transfer while aiming at minimal changes in the model architecture

models make use of unlabelled data - evidence = trained word embeddings

Challenges

- ① unclear of optimization objectives
- ② No consensus on way to transfer the learned representations to target task.

CPT 1 : Semi Supervised approach for language understanding task using combination of unsupervised pre training and supervised fine tuning

Training → 2 stages

- ① Unsupervised on unlabeled data to learn initial parameters of NN model
- ② adapt those parameters to target task using corresponding supervised object (fine-tuning) on labelled data

Transformers :

- (why) - Perform strongly on
- Machine Translation
 - Document Generation
 - Syntax Parsing
- Captures longer range linguistic structure
- long term dependencies in text.
- Provides structured memory for handling
 - Robust transfer performance across tasks
 - Processes structured text as single contiguous sequence of tokens

Unsupervised pre training :-

goal : to find good initialization point instead of modifying supervised learning objective