Pre-Training Tasks for BERT



 Pre-training refers to training a model in one task to help it learn a set of parameters that can be used in other tasks





 Pre-training refers to training a model in one task to help it learn a set of parameters that can be used in other tasks

Vidhya

Pre-training tasks for BERT are based on self-supervised learning



 Pre-training refers to training a model in one task to help it learn a set of parameters that can be used in other tasks

Vidhya

- Pre-training tasks for BERT are based on self-supervised learning
- BERT Pre-training tasks:-
 - Masked Language Modeling (MLM)
 - Next Sentence Prediction (NSP)



- Pre-training refers to training a model in one task to help it learn a set of parameters that can be used in other tasks
- Pre-training tasks for BERT are based on self-supervised learning
- BERT Pre-training tasks:-
 - Masked Language Modeling (MLM)
 - Next Sentence Prediction (NSP)
- BERT is trained on both the tasks simultaneously



Masked Language Modeling (MLM)

Input Sequence = "how are [MASK] doing?"

Target Sequence = "how are you doing?"





Masked Language Modeling (MLM)

- Input Sequence = "how are [MASK] doing?"
 Target Sequence = "how are you doing?"
- 12% of the tokens are replaced randomly with the mask ([MASK]) token



A sentence pair dataset is formed





- A sentence pair dataset is formed
- For 50% of these pairs, the second sentence would actually be the next sentence to the first sentence



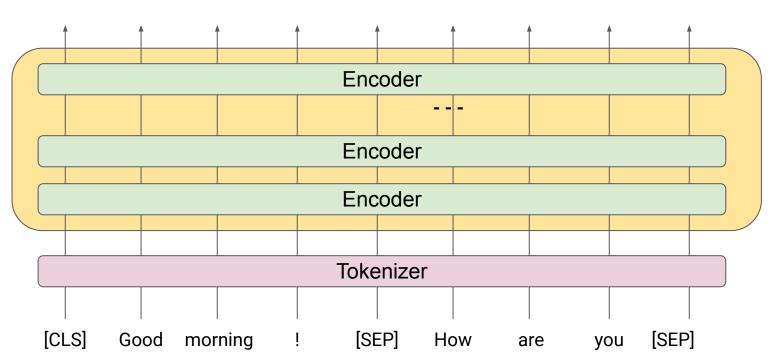
- A sentence pair dataset is formed
- For 50% of these pairs, the second sentence would actually be the next sentence to the first sentence
- For the remaining 50% of the pairs, the second sentence would be a random sentence from the corpus



- A sentence pair dataset is formed
- For 50% of these pairs, the second sentence would actually be the next sentence to the first sentence
- For the remaining 50% of the pairs, the second sentence would be a random sentence from the corpus
- It is a binary classification problem. The labels for the first case would be 'IsNext' and 'NotNext' for the second case



BERT Pre-Training Tasks





BERT Pre-Training Tasks

