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NEXT SENTENCE PREDICTION

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Abstract

- Next sentence prediction is aimed to assess and understand the contextual relation of text.
- The motive of this model is to generate a possible next sentence when it is provided with an input sentence.

Introduction

- Next Sentence Prediction model uses pre-trained language models such as LSTM (Long Short-Term Memory) and BERT (Bidirectional Encoder Representations from Transformers) to generate the next possible sentence.

- This helps user to frame sentences by following letter to letter prediction means.

Existing Method

- MNLI (Multi-Genre Natural Language Inference): This task is given a pair of sentences. The goal is to identify whether the second sentence is entailment, contradiction, or neutral with respect to the first sentence.
- QQP (Quora Question Pairs): In this dataset, the goal is to determine whether two questions are semantically equal.
- QNLI (Question Natural Language Inference): In this task, the model needs to determine whether the second sentence is the answer to the question asked in the first sentence.

Proposed Method

- The main aim of our project is to predict the sentences as quick as possible using BERT and LSTM models. Models understand the relationship between sentences. It was trained with the masked language modelling (MLM) and next sentence prediction (NSP) objective using SWAG (Situations With Adversarial Generations) dataset.

Problem Statement

- Design and implement a model that can effectively predict the next relevant sentence for a given input sentence by level wise word prediction.

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References

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THANK YOU!!