**Utilizing BERT for Aspect-Based Sentiment Analysis**

**via Constructing Auxiliary Sentence**

1 Introduction

The task can be divided into two steps: (1) the first step is to determine the aspects associated with each target; (2) the second step is to resolve the polarity of aspects to a given target.

In particular, our contribution is two-fold:

1. We propose a new solution of (T)ABSA by converting it to a sentence-pair classification task.

2. We fine-tune the pre-trained BERT model and achieve new state-of-the-art results on SentiHood and SemEval-2014 Task 4 datasets.

2 Methodology

2.1 Task description

2.2 Construction of the auxiliary sentence

2.3 Fine-tuning pre-trained BERT

3 Experiments

4 Discussion

5 Conclusion

In this paper, we constructed an auxiliary sentence to transform (T)ABSA from a single sentence classification task to a sentence pair classification task. We fine-tuned the pre-trained BERT model on the sentence pair classification task and obtained the new state-of-the-art results. We compared the experimental results of single sentence classification and sentence pair classification based on BERT fine-tuning, analyzed the advantages of sentence pair classification, and verified the validity of our conversion method. In the future, we will apply this conversion method to other similar tasks.