

Figure 5: A question-answering sample that TimeSformer could answer correctly

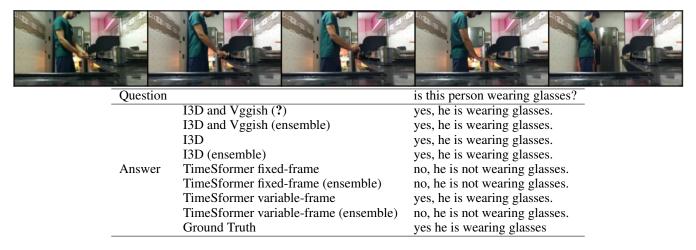


Figure 6: A question-answering sample that TimeSformer had difficulty in answering correctly

movement videos is required.

Conclusion

In this paper, we proposed to apply the Transformer-based video representations instead of the CNN-based representations to the autoregressive response generation model for AVSD. The results of a subjective evaluation for the test sets of DSTC7 and DSTC8 showed that the Transformer-based model outperformed the CNN-based model. Our model was competitive with the ground truth answers for DSTC10. The Transformer-based model was likely to answer properly the question about the number of people shown in the video; a task that needs the spatio-temporal global dependencies of the video.

In the future, we will construct a model that flexibly extracts local or global visual information depending on the pattern of the question. In addition, we plan to improve the visual understanding of low-quality and/or complex videos via data expansion.

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