Swiss German Speech to Standard German Text

SwissText.org Shared Task 3

Anonymous ACL-IJCNLP submission

Abstract

This paper analyzes and implemented models for the shared task 3 from the SwissText conference on translating swiss german speech to standard german text and presents the findings. We implemented multiple *DeepSpeech* models using the data provided by SwissText.org as well as additional data. An additional experiment with a sequence to sequence translation model was trained in order to improve our score. We achieved a BLEU score of up to 0.17 on the test set of SwissText.

1 Introduction

2 Materials and Methods

3 Results

Model	Data	Additional information	Train BLEU	Test BLEU
DeepSpeech (Trained from scratch)	SwissText	-	0.23	0.0004
DeepSpeech (Pre-trained)	ArchiMob	Fine-tuned on latest German DeepSpeech	0.27	**0.17**
DeepSpeech + Opus-MT-DE-EN (Pre-trained)	ArchiMob	Additional sequence-to-sequence model	0.24	0.07

Table 1: Results

4 Discussion

5 Conclusion

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References

Stuffer Andrew and Stuffer Girl. 2020. Stuff.