Quantifying Language Variation Acoustically with Few Resources

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Abstract

Deep acoustic models represent linguistic information based on massive amounts of data. Unfortunately, for regional languages and dialocts. such resources are mostly not available. However, deep acoustic models might have learned linguistic information that transfers to lowresource languages. In this study, we evaluate whether this is the case through the task of distinguishing low-resource (Dutch) regional varieties. By extracting embeddings from the hidden layers of various wav2vec 2.0 models (including new models which are pre-trained and/or fine-tuned on Dutch) and using dynamic. time wurping, we compute pairwise protunciation differences averaged over 10 words for over 100 individual dialects from four (regional) languages. We then cluster the resulting difference matrix in four groups and compare these to a gold standard, and a partitioning on the basis of comparing phonetic transcriptions. Our results show that acoustic models outperform the (traditional) transcription-based approach without requiring phonetic transcriptions, with the best performance achieved by the multilingual XLSR-53 model fine-tuned on Dutch. On the basis of only six seconds of speech, the resulting clustering closely matches the gold standard.

1 Introduction

types of linguistic information. Specifically, the initial layers appeared to be most similar to the input speech features, whereas the middle layers mostly encoded contextual information. The final layers again turned out to be similar to the input speech features. However, the representations of the final layers changed when the model was finetuned, likely because task-specific information was learned. In addition, Ma et al. (2021) investigated several deep acoustic models using phonetic probing tasks, and found that representations from these models capture information useful for distinguishing English phones. Importantly, these deep acoustic models were better able to distinguish English phones than using conventional MFCC or filterbank features. Although they evaluated the transferability of deep acoustic representations across several domains, it remains unclear whether these models learned information that transfers to other languages. This is, however, important when working on more inclusive speech technology. Especially when resources for training these models are lacking, such as for regional languages and dialects. In this paper, we therefore investigate if hidden layers of deep acoustic models incorporate fine-grained information, which can be used to represent differences between, and in turn distinguish, regional language varieties.

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