

Database	# Speakers	Hours	Utterances
ISAT (train)	166	2.66	6.5k
MyST (train+dev)	575	139	62.1k
CSLU	498	0.65	644
CU	844	60.3	51.5k

Table 1: Data used for Training/Tuning

3.1. Training Datasets

Three public corpora of child speech from US schools were used for training and tuning the ASR systems. **MyST** comprises spontaneous speech of children in grade 3-5 (age approx. 8-11); **CUKids** [18] contains scripted and spontaneous speech from grades K-5 (age 5-11); and **CSLUKids** consists of scripted and spontaneous speech from grades K-10 (OGI corpus; age 5-16 [19]). For MyST, the *train* and *development* partitions were used for training/tuning, whereas all of CSLU and CU corpora were used for training.

ISAT contains working together on science problems while sitting in groups of 4-5 around tables recorded using a table-top microphone. Each classro82.961s all of

model	ISAT	LEVI	MyST	MyST corrected
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Model	Data	ISAT	LEVI	MyST	MyST-c
<i>pretrained</i>		57.9	46.5	15.0	13.5
<i>LP [27]</i>	ID+OD	56.3	44.3	15.7	14.2
GPT-2	ID+OD	56.0	43.0	13.6	12.0
LLAMA 2	ID+OD	56.1	43.2	13.7	12.0
GPT-2	OD	56.0	43.7	13.7	12.1
LLAMA 2	OD	56.0	43.1	13.7	12.1
oracle		40.0	28.8	10.3	8.7

Table 5: WER using speed-aware rescoring. In-domain (ID) datasets:

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