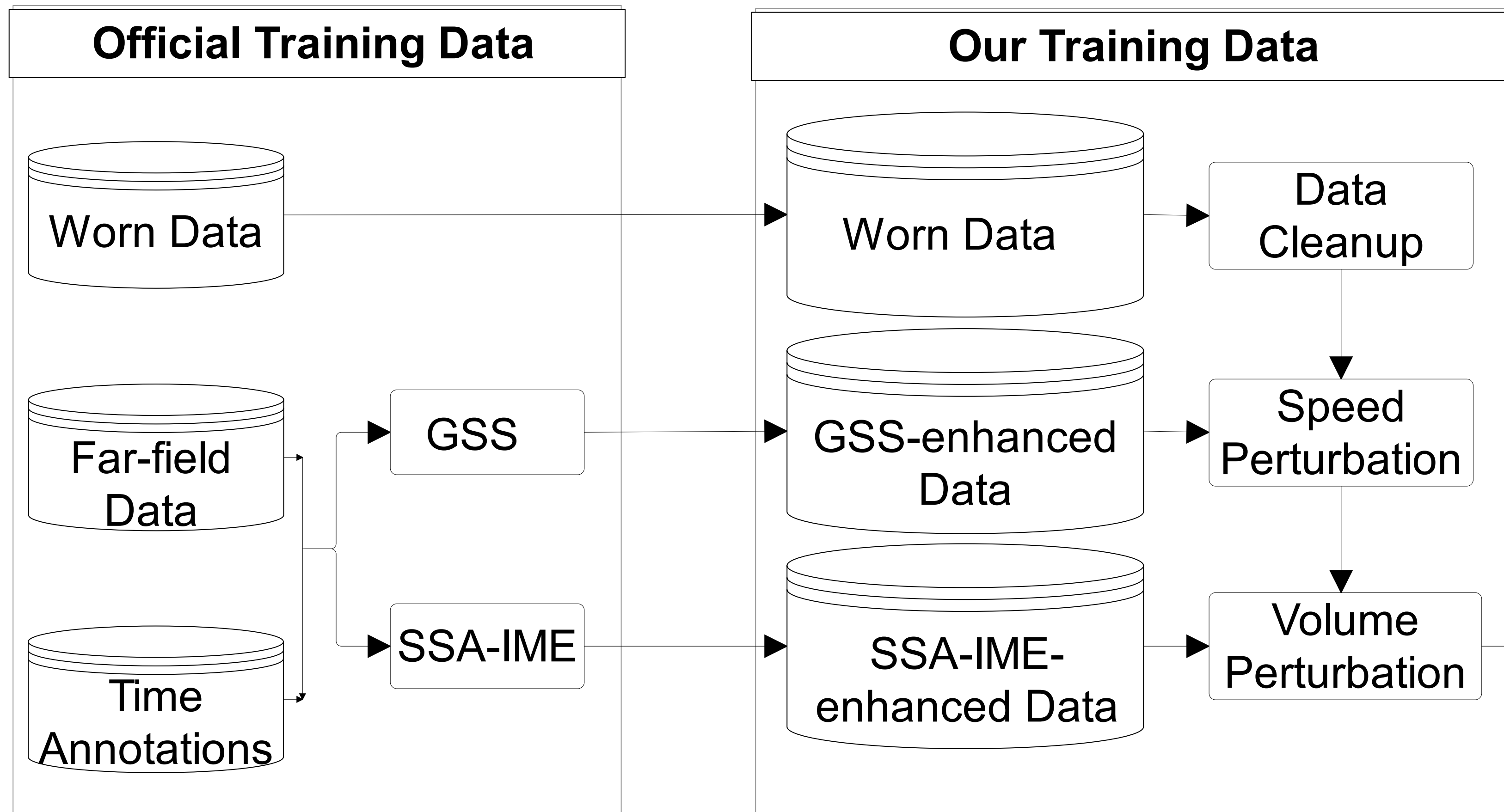# Front-end and Data Augmentation

Back-end Acoustic Modeling

Official Training Data

- Worn Data
- Far-field Data
- Time Annotations
- GSS
- SSA-IME

Our Training Data

- Worn Data → Data Cleanup
- GSS-enhanced Data → Speed Perturbation
- SSA-IME-enhanced Data → Volume Perturbation

SpecAugment → Acoustic Model Training

Acoustic Model Architectures

- ResNet-TDNNF
- ResNet-TDNNF-Dilation
- ResNet-SelfAttention-TDNNF-Dilation
- ResNet-TDNN-RBiLSTM