Data Curation

google_speech_commands

📁 backward (1664 files)

📁 bed (2014 files)

📁 bird (2064 files)

📁 cat (2031 files)

📁 ...

dataset_curation.py

keywords_curated

📁 _noise (1500 files)

📁 _unknown (1500 files)

📁 hello (1500 files)

📁 stop (1500 files)

} target keywords

📁 _background_noise_ (6 files)

custom_keywords

📁 hello (50+ files)

Data Augmentation

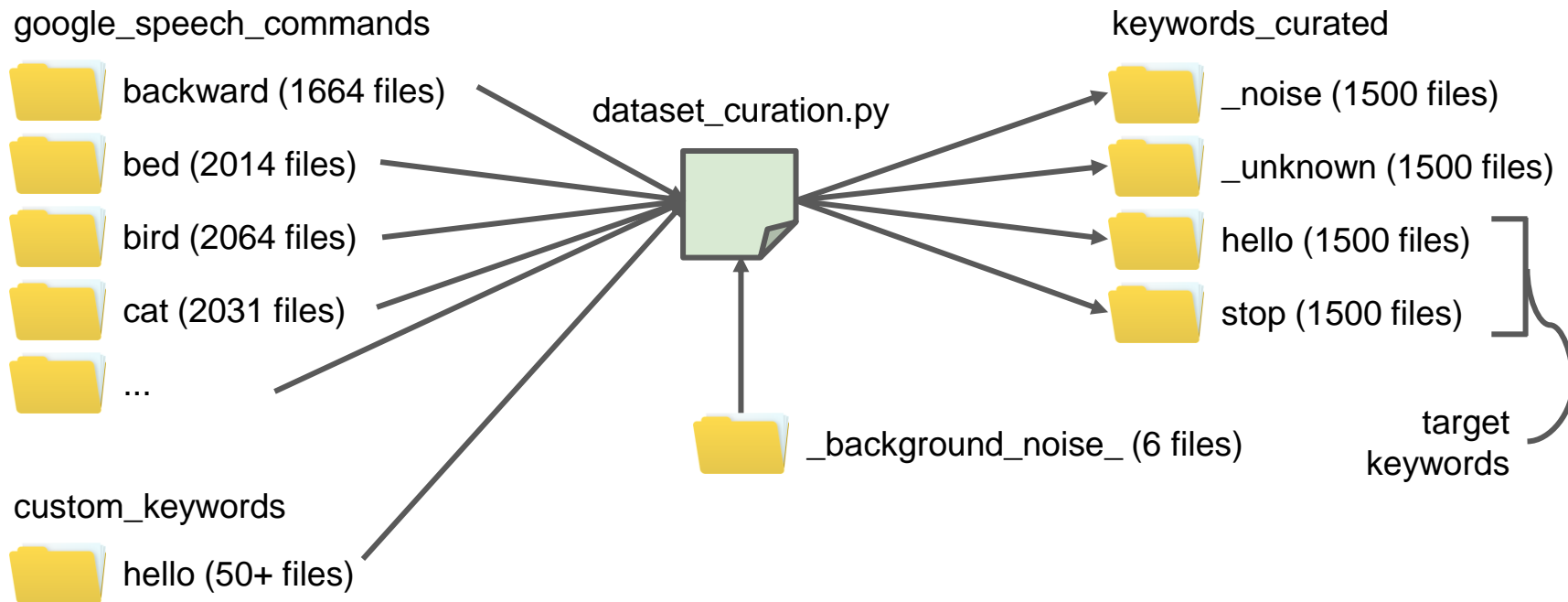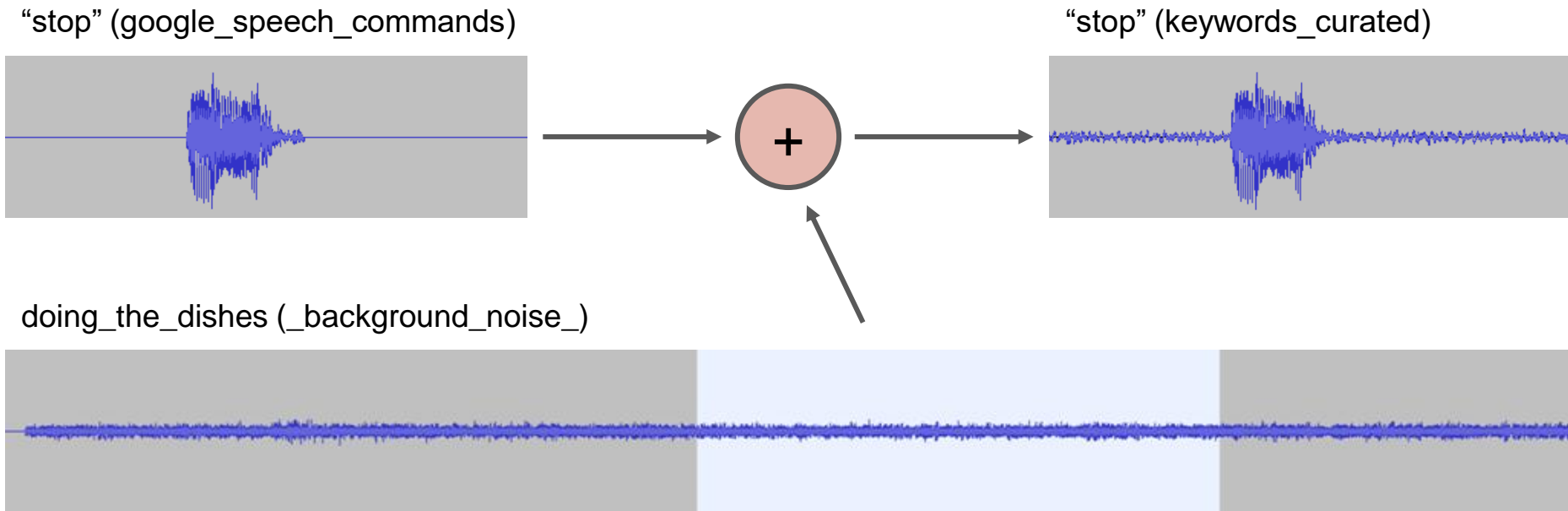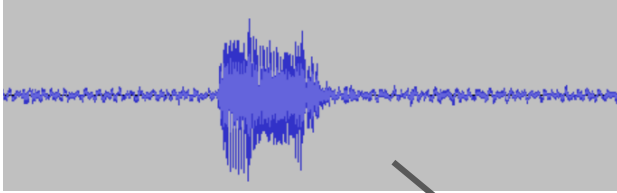"stop" (google_speech_commands)

"stop" (keywords_curated)

doing_the_dishes (_background_noise_)

Sample Matching

- Sample rate
- Bit depth
- Length

1 second of audio at 16 kHz and 16 bits = 16,000 samples (16 bits each)