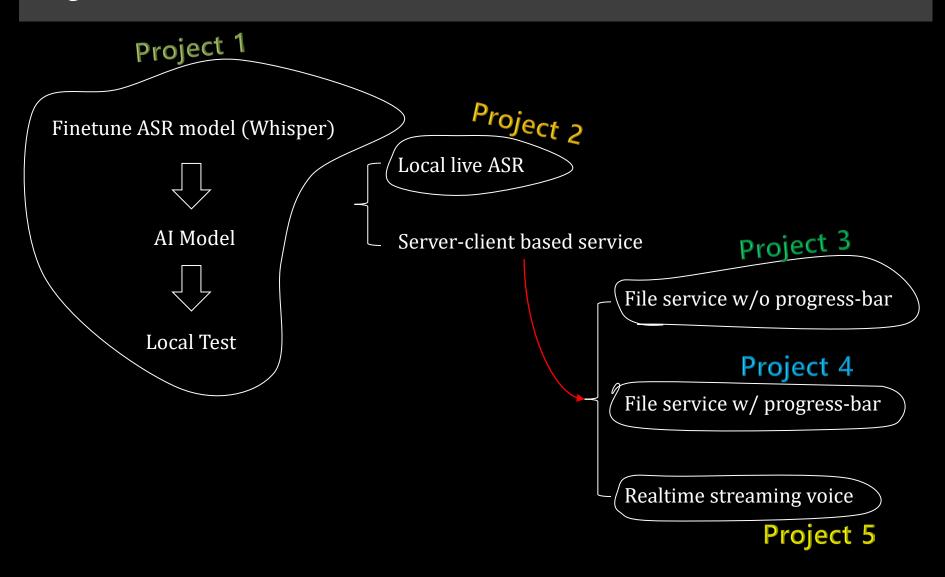
Dataset Processing

소프트웨어 꼰대 강의

노기섭 교수

(kafa46@cju.ac.kr)

Big Picture



Whisper finetuning data structure

Reference: https://huggingface.co/blog/fine-tune-whisper

```
{'audio': {'path':
```

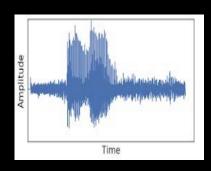
 $'/home/s anchit_hugging face_co/.cache/hugging face/datasets/downloads/extracted/607848c7e74a89a3b5225c0 fa5ffb9470e39b7f11112db614962076a847f3abf/cv-corpus-11.0-2022-09-21/hi/clips/common_voice_hi_25998259.mp3',$

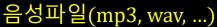
'array': array([0.0000000e+00, 0.0000000e+00, 0.0000000e+00, ..., 9.6724887e-07,

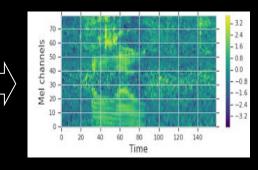
1.5334779e-06, 1.0415988e-06], dtype=float32),

'sampling_rate': 48000},

'sentence': 'खीर की मिठास पर गरमाई बिहार की सियासत, क्शवाहा ने दी सफाई'}







log-Mel spectrogram



"안녕하세요, ACIN 아카데미 입니다."

Label(text)

Required dataset for fine tuning

Anyway, we need tuple type data

- 01. (audio file, transcript)
- 02. (audio file, transcript)
- 03. (audio file, transcript)

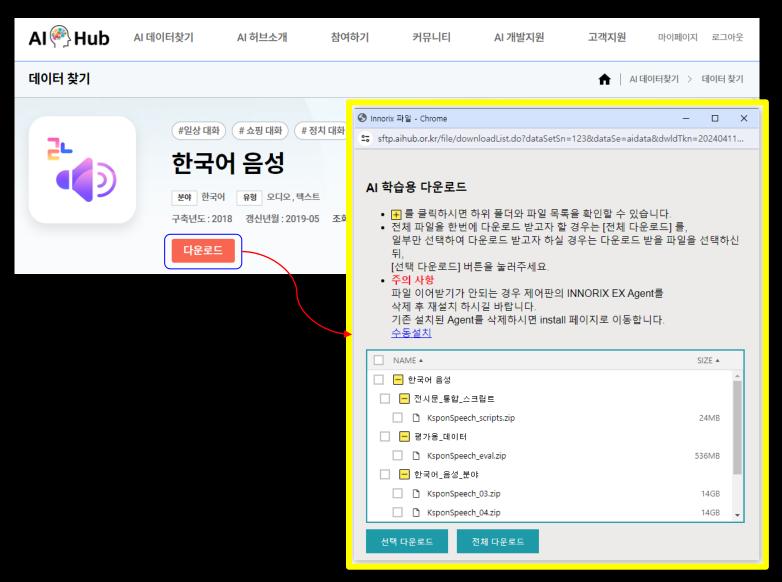
:

Our target data for fine tuning

https://www.aihub.or.kr/aihubdata/data/view.do?currMenu=115&topMenu=100&aihubDataSe=realm&dataSetSn=123

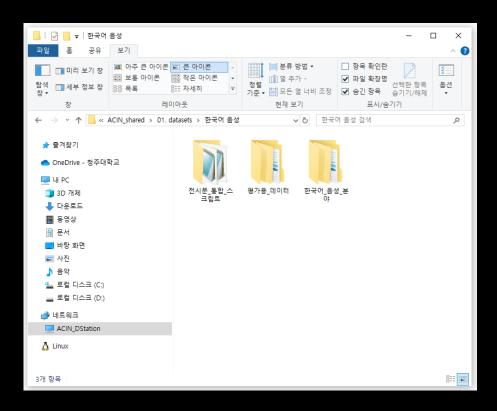


Download dataset



Overlook dataset

Download 데이터 살펴보기



TO-DO list

Create virtual environ & work directory

work_dir
data
audio
info

Move (or copy) files in our working directory

Convert all text files (labels or transcripts) into utf-8 encoding

Process '.pcm' files into '.wav' format

Split dataset into 'train' & 'test'



수고하셨습니다 ..^^..