What is the aim?

The aim of the work is automatic speech recognition for speech test of Persian preschool children, the demand on what grew up rapidly since COVID-19.

Which model has been used?

- 1) Wav2Vec 2.0 model with modifying for various frequency domains.
- 2) VAD + Classifier

Which dataset has been used?

- 1) Data collected by asking some adults from social media and some students from an elementary school to participate in the experiment.
- **2)** LibriSpeech, which s a collection of approximately 1,000 hours of audiobooks that are a part of the LibriVox project.
- **3)** Common Voice is an audio dataset that consists of a unique MP3 and corresponding text file.

What is the result?

Following approach reaches a Word Error Rate(WER) of 6.45 on the Persian section of the CommonVoice dataset.

Pre-train Objective	Dataset	WER
RFP	Common Voice Persian	6.45
Masking	Common Voice Persian	8.45
RFP	LibriSpeech test-clean	1.35
Masking	LibriSpeech test-clean	1.79
RFP	Common Voice + RAN's Samples	4.56
Masking	Common Voice + RAN's Samples	5.15
RFP	Common Voice + Meaningless Words's Samples	4.12
Masking	Common Voice + Meaningless Words's Samples	7.15