Tutorial 1
Submission date: 30.02.2021

1. Speech recognition is the ability of a machine or program to identify words and phrases in spoken language and convert them to a machine-readable format. Explain each steps of the Speech recognition.

2. Compare Speaker dependent and Speaker-independent speech recognition.

3. Describe the architecture of a TTS system?

4. “Speech synthesis is the artificial production of human speech. A computer system used for this purpose is called a speech computer or speech synthesizer”. Briefly describe the steps of the automatic speech recognition with issues on each step.

5. With a suitable example explain why text-to-phoneme conversion is not straightforward?

6. Festival Speech Synthesis System uses deep architecture for statistical speech synthesis. Explain

7. Text to speech conversion is difficult than the speech recognition. Briefly explain why it is so difficult

8. Explain a way to use Sphinx as a speech recognizer for Sinhala

9. Explain how to build a JavaTTS system for Sinhala by transliterating Sinhala word into English

10. Explain a way to improve above Sinhala TTS system to pronounce Sinhala in Better way

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