

INTRODUCTION

- Stuttering
- Identification of stuttering
- Correction of stuttering
- Explanation of the proposed system
- Novelty of the research
- Explanation of the implementation

STUTTERING

- Stuttering is a speech disorder that affects the fluency of speech.
- It is characterized by interruptions in the flow of speech, including repetitions, prolongations, and blocks.
- Can also involve physical behaviours such as tension or movements of the face or body.
- Can occur in both children and adults
- Can have a significant impact on social, educational, and professional activities.
- Stuttering can be caused by a combination of genetic, neurological, and environmental factors but the causes are not fully understood.
- Speech therapy, self-help techniques, and the use of assistive technology are the existing treatments at the moment.

IDENTIFICATION OF STUTTERING

- Has been attempted multiple times and in multiple ways
- Mainly aims to identify the core stuttering behaviours
- TDNN's identified to be suitable for capturing contextual aspects of the dysfluent utterances(Sheikh, 2021)

CORRECTION OF STUTTERING

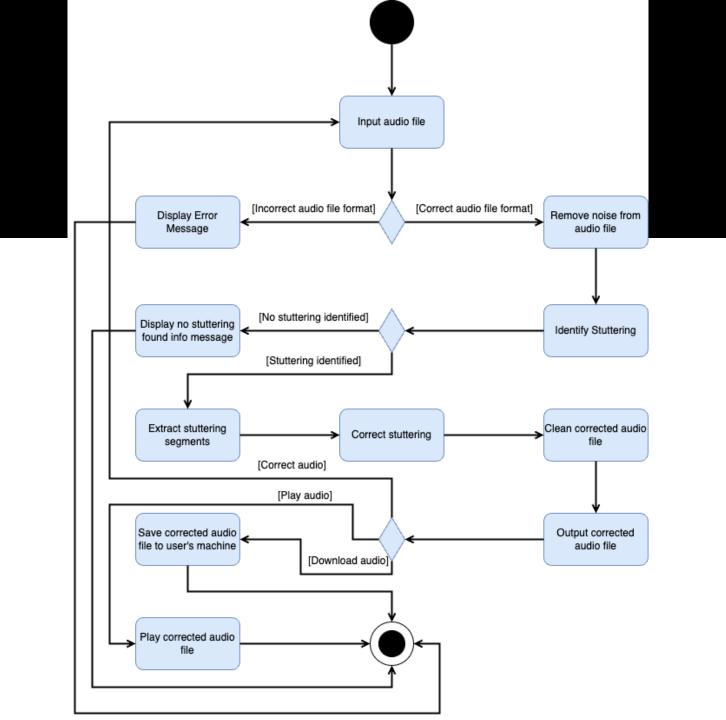
- No established ways to correct stuttering
- Alternative, easy and fast solution
- Established system which come closer to stuttering correcction:
- Descript

NOVELTY OF THE RESEARCH

- Problem novelty Identify correctly the stuttering core behaviours by increasing achieved accuracies
- Solution novelty Correcting the stuttering instances in an audio file as at the moment there are no established solutions

PROPOSED SYSTEM

- The prosed system would have 4 major stages:
- 1. Input audio file
- 2. Identify stuttering in audio file
- 3. Correct stuttering in audio file
- 4. Output stuttering in audio file



IMPLEMENTATION

- Explanation of the implementation done upto now
- https://github.com/AlexPeiris7/Dysfluency-detection-and-correction

CONCLUSION

- System will be a contribution in the stuttering domain.
- System will aim to have the highest accuracies possible when detecting the core stuttering behaviours.