

# Research Assistantship

Text to Speech Synthesis | Aug 2023 - Present

## RESEARCH AIM & MY ROLE

Two Research aims with different applications:

- Using VR to **simulate common scenarios** for Parkinson caregivers
- highlighting **sensitive to mispronunciations** by Singaporeans at the phoneme level

My role:

- Create a **Singaporean-sounding** model
- Improve it to **engage in conversation** (emotional TTS)

## WHAT I GAINED

- **Model Development Pipeline** with large datasets
- The **use of finetuning** a pretrained model (SpeechT5)
- **Processing** unstructured data

## MODEL DEVELOPMENT WORKFLOW

