Project Abstract

As the third most spoken language in Africa, Yorùbá is used by over 40 million people in Nigeria,
Benin and Togo. However, there is barely any dialogue transcription system for Yoruba. In this project, we created the first three-step Yoruba dialogue transcription system. Specifically, a speech-to-text module (STT), auto text damage restoration (ADR) and machine translation (MT) module was developed through fine-tuning multilingual transformer models with four Yoruba datasets. We managed to reach word error rate(WER) at 51.8% for STT, WER reduction from 52% to 26.2% on ADR and BLUE score of 42.8 for MT.