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Summary of Pushto Text to speech system

Methodology

Methodology diagram used in this Paper

Methodology:

Corpus Creation

In this methodology first create the dataset by self becuase there is no data on the market related to pulsto and then introduced ho to make the data that there are two ways first extract and normalize the script and record the pulsto speech.

02-Data Preparation

1. Front end Analysis

Analysis and lebelling come from the conventional end/approach. They contain the 'Tokenization', 'Part of speech Tagging', 'Letter to Sound', 'Phase break', 'inotation' etc. These combination will output you a linguistic <u>specification.To</u> Bypass above we have open source toolkit like espeark, Festival, MArryTTs, etc but they are not for Phusto .But i this work we will use the 'ossain' which provide the all specification as describe above.

2. Normalizaton

Normalization is required to remove or replace with something else like sentance contain figure, charts, numbers, symbols, Abbreviation for example 'FYI' mean for your information.we need to replace or remove from the sentance in other word we need to cover all these stuff. and senttance and word highly dependent on the Context.

3. 2.3 Tokenization

Tokenzation the Sentance into words

4. 2.4 Letter to Sounds

To undetstand the Letter to sounds we need to undertstand the wrinting system in communication ways .we devided the into the Three groups 'Alphabets', 'Sylabaries', and 'logographics' Alphabets in pushto is different from the Classifical alphabets like it consonent base approach for example 'abujads'. its does not have separate symbol for the Consonent and Vowels.

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5. Alignment and Silence Detection

For the forced alignment, HTS force alignment toolkit is used to extract the timing informa-tion such as silence in the utterance, the start of a letter, the end of a letter, and sub-phoneinformation from the utterance and then the extracted information is appended into the front-end features file

03-Output(Acoustis) Features Extraction and Engineering

wavefrom is an output in TTS system play vital role and still under researching . from the observation and it is noted that it the utterance is created the and wavefrom is creted the waveform must be suitable if we are reconstruct the wavefrom but probelm is same words has difference utterance in the waveforom.

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