ALTERNATE PRONUNCIATION & REGARDING ISSUES

Presented by Muhammad Ayub



Center for Language Engineering (CLE)
Al-Khawarizmi Institute of Computer Science
University of Engineering and Technology
Lahore, Pakistan

Introduction

- o Pakistan is a multilingual country as almost 59 different languages are being spoken.
- The names of 139 districts of Pakistan are brought under the influence of six major accents i.e. Urdu, Punjabi, Sindhi, Balochi, Pashto and Saraiki against their standard pronunciation to analyzed the changes.
- A variation in the standard pronunciation is taken into account to go through some specific measures to allocate for the Alternate Pronunciation or it is removed.
- Here a new concept of variation in the standard pronunciation is pondered upon which I will discuss in the subsequent slides.

ALTERNATE PRONUNCIATION

- Definition
- Criteria of AP

 $sp00256_z057_pun_M_dt008_ver01.wav \ AP \ VDM \ D_ZA_AFRA_ABA_AD_D$

 $sp00293_z057_pun_M_dt008_ver01.wav \ AP \ VDM \ D_ZA_AFRA_ABA_AD_D$

sp00334_z057_pun_M_dt008_ver01.wav

sp00410_z072_pun_F_dt008_ver01.wav AP VDM D_ZA_AFRA_ABA_AD_D

 $sp00439_z140_pun_F_dt008_ver01.wav \quad AP \qquad \qquad VDM \qquad \quad D_ZA_AFRA_ABA_AD_D$

sp00453 z079 pun F dt008 ver01.wav AP VDM D ZA AFRA ABA AD D

VDM

D_ZA_AFRA_AB_AD_D

D_ZA_AFRA_AB_AD_D

VDM

VDM

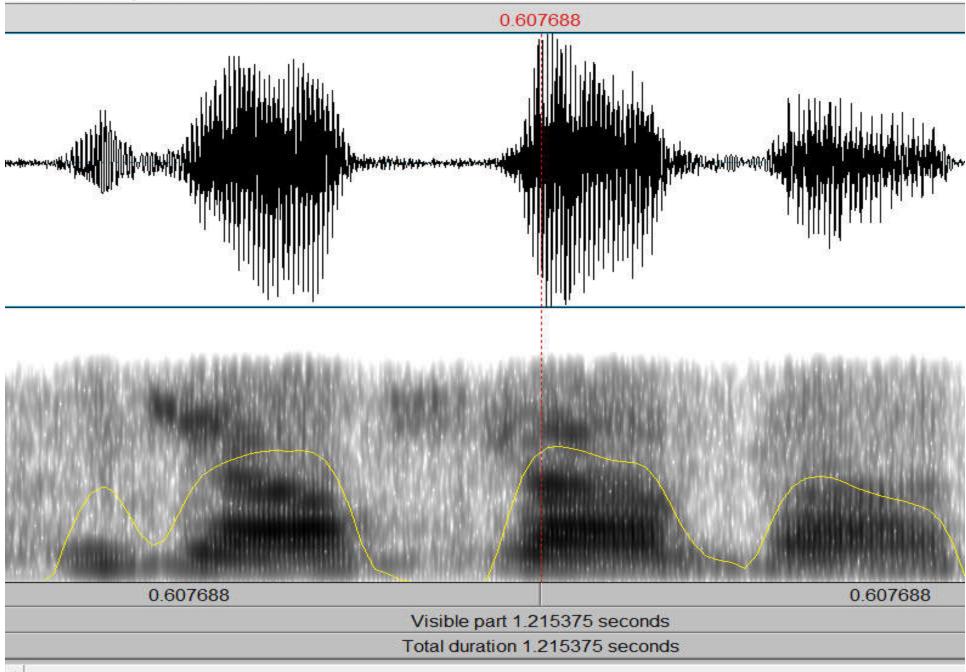
D_ZA_AFRA_ABA_AD_D

sp02021 025 urd F dt008 ver01.wav

VDM

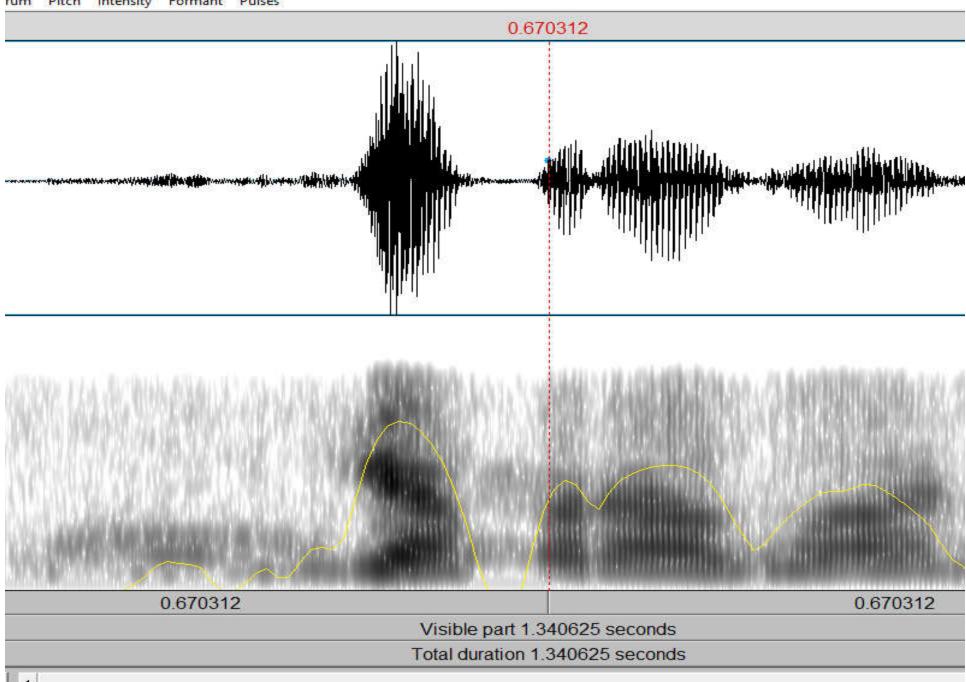
D_ZA_AFRA_ABA_AD_D

VDM D_ZA_AFRA_ABA_AD_D

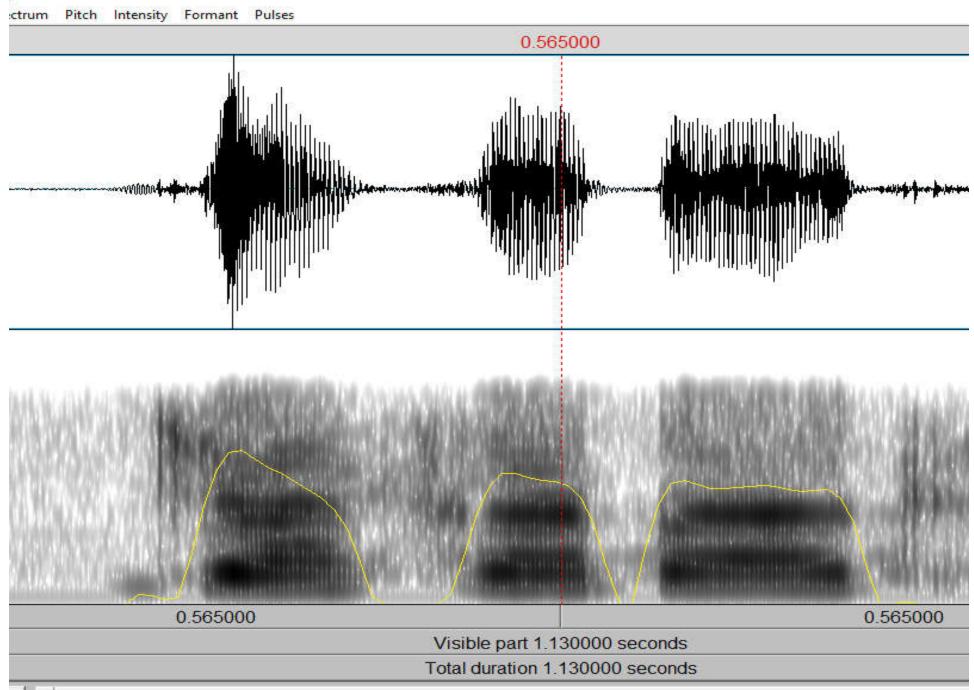


$$sp01396_z024_pus_F_dt008_ver01.wav\,AP \qquad VDM \qquad D_ZA_AFRA_ABA_AD_D$$

rum Pitch Intensity Formant Pulses

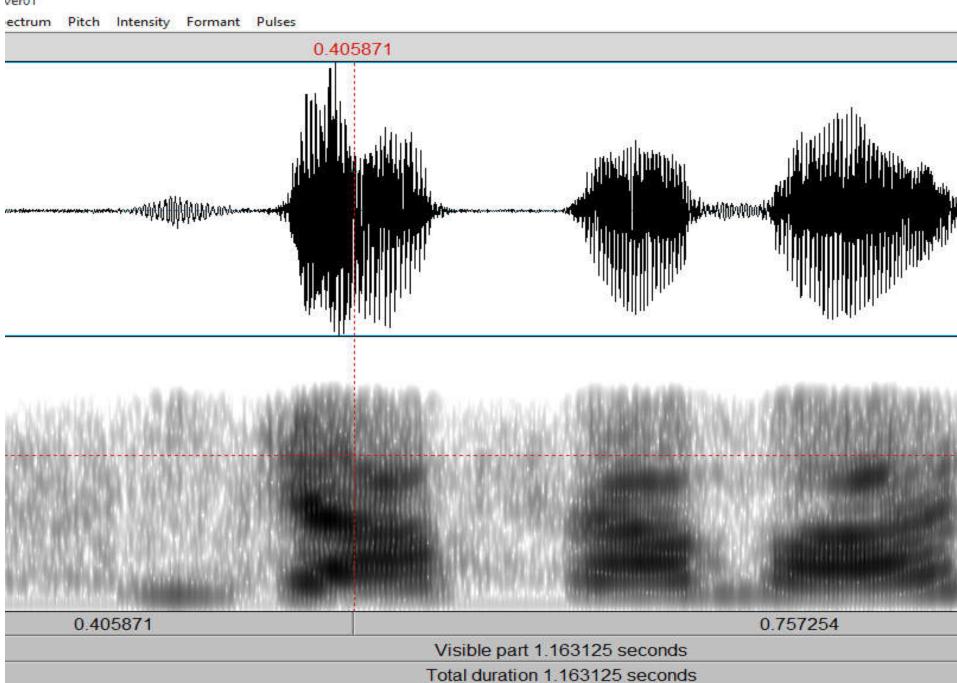


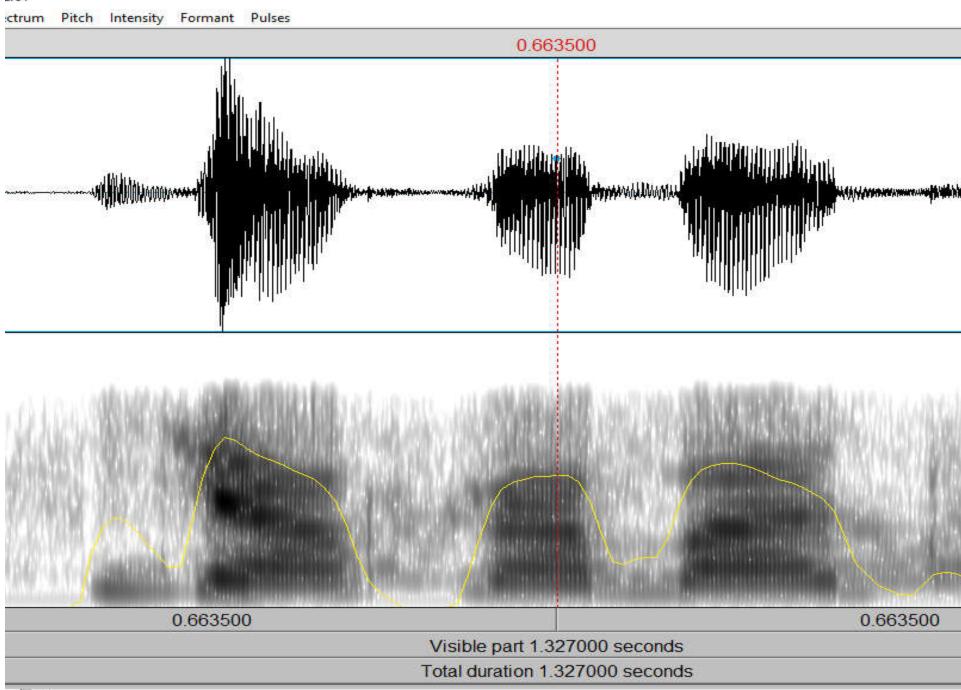




$$sp01392_z025_bal_F_dt008_ver01.wav \qquad AP \qquad \qquad VDM \qquad \quad D_ZA_AFRA_ABA_AD_D$$

$$sp02679_z140_bal_M_dt008_ver01.wav \quad AP \qquad \qquad VDM \qquad \quad D_ZA_AFRA_ABA_AD_D$$





DATA ANALYSIS OF D_ZA_AFARA_ABA_AD_D

$$\circ$$
 AP =47.5%

$$\circ$$
 No. of AP =13

• AP
$$=62 \%$$

$$\circ$$
 No. of AP =4

$$\circ$$
 No. of AP =15

$$\circ$$
 AP = 28.3 %

READ ME.TEXT

- D_ZA_AFARA_ABA_AD_D:
- This district folder contains two types of AP (alternate pronunciation). These AP's are marked as AP1 and AP2. Their respective transcriptions are given below:
- AP 1 :D_ZA_AFRA_ABA_AD_D

• AP 2 :D_ZA_AFARA_AVA_AD_D

SAME TRANSCRIPTION

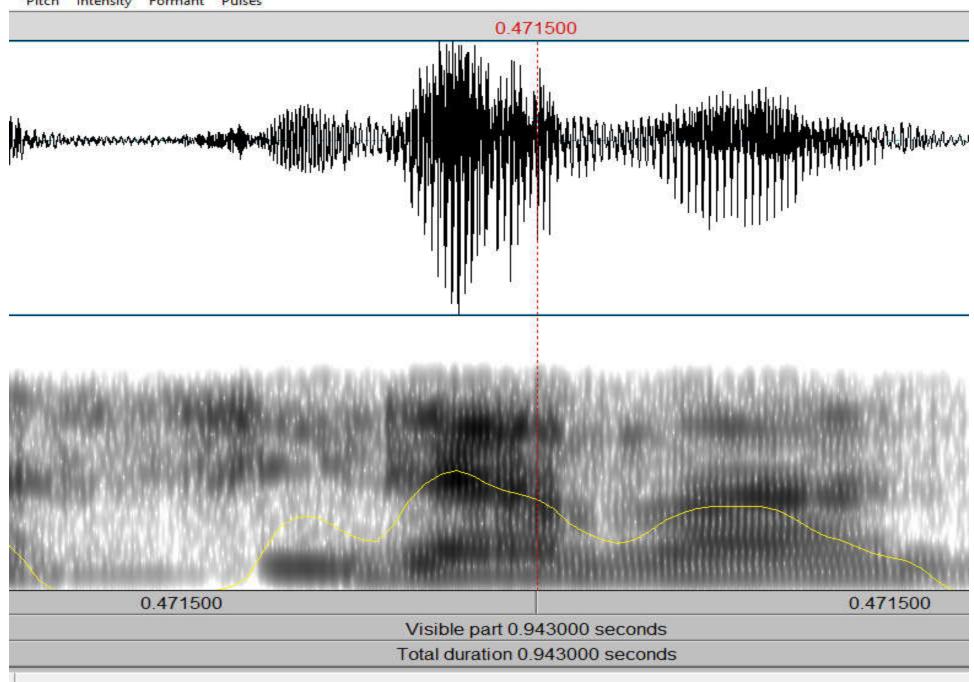
• But Pronunciation is different

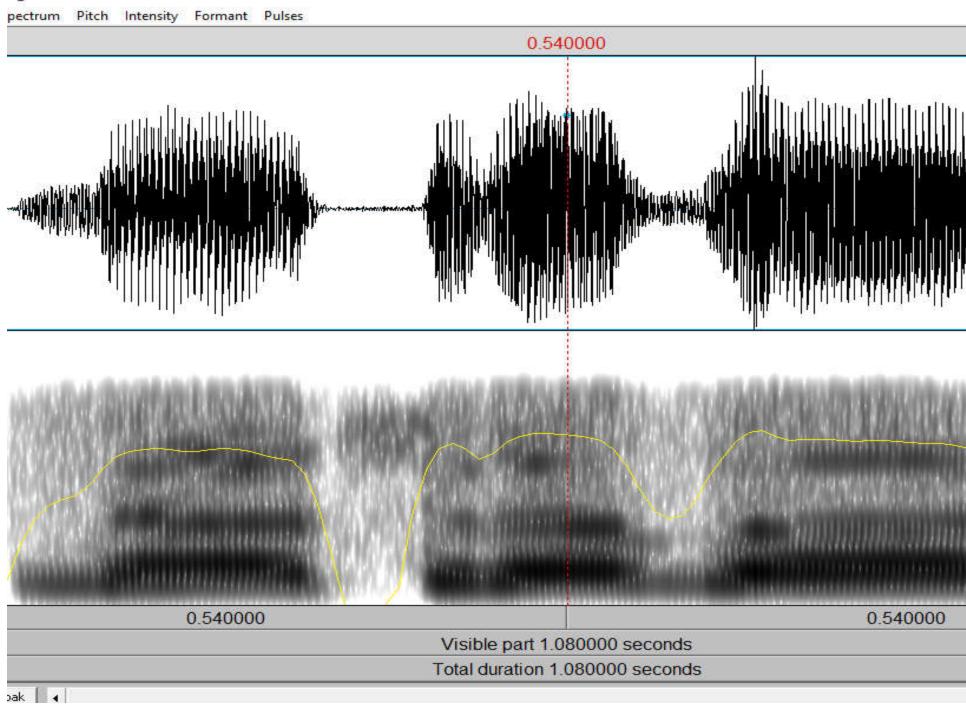
- D_ZA_AFAR[PAU]A_ABA_AD_D
- \circ D_ZA_AFARA_A[PAU]BA_AD_D

HENCE ALTERNATE PRONUNCIATION

- Definition:
- Alternate Pronunciation is a variation of standard pronunciation in which substitution, deletion, insertion of vowel and substitution of consonant is analyzed if no. of instances show a general trend towards that accent.

27th Oct, 2015 Center for Language Engineering (CLE)





DATA ANALYSIS OF NASI_IRA_ABA_AD_D

• Clean files of Punjabi speakers = 31

 \circ No. of AP = 18

 \circ AP = 58 %

• Clean files of Urdu speakers = 21

 \circ No. of AP = No

• Clean files of Balochi speakers = 6

 \circ No. of AP = No

• Clean files of Pashto speakers = 52

 \circ No. of AP = No

 \circ No of RM = 4

o I f AP(suppose) =8 %

IP

NASI_IRA_AVA_AD_D

sp01181 z044 pus M dt021 ver01.wav

sp01184_z044_pus_M_dt021_ver01.wav

IP

NASI_IRA_AVA_AD_D

sp01198 z044 pus M dt021 ver01.wav

IP

NASI_IRA_AVA_AD_D

$$sp01657_z052_pus_M_dt021_ver01.wav$$

IP

NASI_IRA_AVA_AD_D

Similarly

sp00991 z037 pus M dt021 ver01.wav RM

VSD

NA ASIRA ABA AD D

27th Oct, 2015 Center for Language Engineering (CLE)

sp01174_z044_pus_M_dt021_ver01.wav RM CSD NASI_IRA_AVA_AD_D

sp01181_z044_pus_M_dt021_ver01.wav

sp01184_z044_pus_M_dt021_ver01.wav

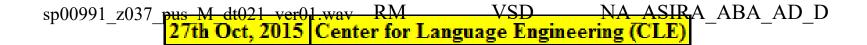
sp01196_z044_pus_M_dt021_ver01.wav RM CSD NASI_IRA_AVA_AD_D

sp01198_z044_pus_M_dt021_ver01.wav

sp01249_z045_pus_F_dt021_ver01.wav RM CSD NASI_IRA_AVA_AD_D

sp01657_z052_pus_M_dt021_ver01.wav RM CSD NASI_IRA_AVA_AD_D

Similarly

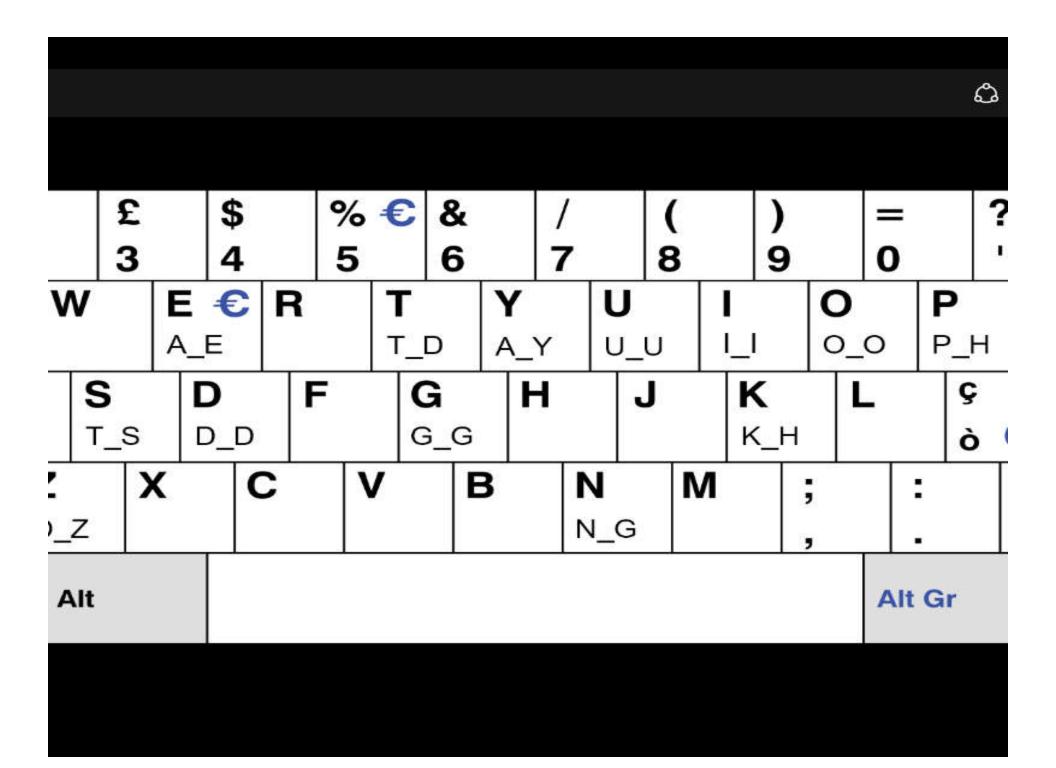


CONCLUSION

o Generally it is supposed that every variation in standard pronunciation is either discarded or marked as AP after making go through some specific parameters. In this research work, it has been proved that the variation in standard pronunciation will be processed as correct if it keeps the transcription unchanged i.e. it will neither be discarded nor marked as AP.

SUGGESTIONS

- Adjustment of AP according to no. of files
- Concept of a New Keyboard



CHANGE OF TRANSCRIPTION

- The transcription of code(103) MI_IRPU_URKHAS has been changed into MI_IRPU_URXA_AS.
- The transcription of code(121) JANUBI WAZIRISTAN
 has been changed into
 D_ZANU_UBI_IVAZI_IRIST_DA_AN
- The transcription of code(135) DIA_AMAR has been changed into D DIA AMAR
- The transcription of code(240) DO_OPA_E_HHAR has been changed into D_DO_OPA_E_HHAR

THANKS

by Muhammad Ayub



Center for Language Engineering (CLE), Al-Khawarizmi Institute of Computer Science, University of Engineering and Technology Lahore, Pakistan