

**ARTIFICIAL INTELLIGENCE (AI) IN THE
AGE OF TRANSFORMATION:
OPPORTUNITIES AND CHALLENGES**

**AAB COLLEGE, INTERNATIONAL
CONFERENCE**



Solving the Puzzle of Speech Sounds in English Language: AI Prompts for Improvement in Pronunciation

**Natka Jankova Alagjozovska, PhD
Goce Delcev University, Stip**

Agenda



Understanding the Nuances of the Phonemes and Allophones in English Pronunciation



The influence of linguistic background on speech sound variations



Utilizing AI for enhanced understanding of phonetic distinctions



Phonetic Variations in English Pronunciation



How AI prompts can improve English pronunciation effectively

UNDERSTANDING THE NUANCES OF THE PHONEMES AND ALLOPHONES IN ENGLISH PRONUNCIATION

The pronunciation differences between English and Macedonian illustrate the complexities inherent in learning a new language's sound system.

Modern phonetic instruments can convert speech sounds into visual formats, aiding in the understanding of phonetic distinctions.

Phonemes serve as fundamental sound units while allophones represent their varied pronunciations, critical for effective communication.

Contextual factors, including speaker fatigue and environmental noise, contribute to sound variations and can influence comprehension.

The influence of linguistic background on speech sound variations and basic literature review

- A phoneme is objective and material and it can have infinite number of allophones;
- The phoneme represents distinctive features; the allophone represents non-distinctive features
- Benjamin Lee Whorf introduced the “allophone” in 1940s
- The phoneme is visible – found in the IPA; the allophone is invisible – only pronounced



Impact of Background on Pronunciation

A speaker's linguistic background significantly affects their pronunciation, often leading to variations that can cause misunderstandings.



Accent Variation Across Cultures

Accents are reflective of cultural and geographic influences, resulting in distinct pronunciation patterns that enrich language diversity.



Challenges for Language Learners

Non-native speakers frequently encounter challenges due to phonetic discrepancies that are often imperceptible to the untrained ear.

Utilizing AI for enhanced understanding of phonetic distinctions

➤ AI in Phonetic Education

Artificial intelligence can provide personalized learning tools to facilitate better understanding of phonetic concepts and pronunciation.

➤ Minimal Pair Exercises with AI

AI tools can generate examples of minimal pairs, allowing learners to focus on distinguishing similar sounds effectively.

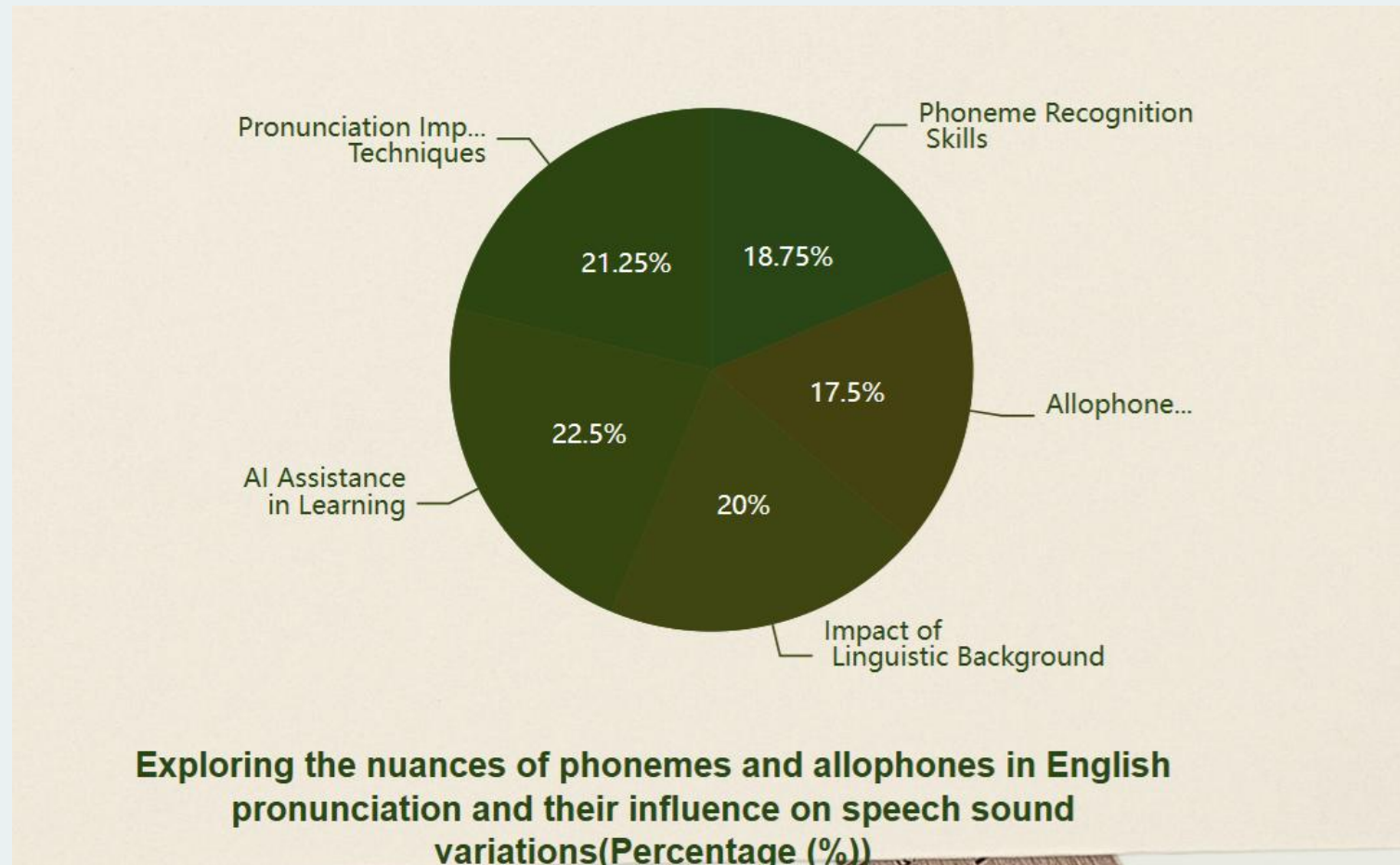
➤ Feedback Mechanisms in Language Learning

AI systems can offer immediate feedback on pronunciation, helping learners correct errors and improve their speech clarity.

➤ Research Insights on AI Efficacy

Recent studies show AI's potential in language education, particularly in enhancing phonetic transcription accuracy and comprehension.

Phonetic Variations in English Pronunciation



How AI prompts can improve English pronunciation effectively



Understanding Speech Sound Variations in English

The role of phonemes and allophones in differentiating meanings in English pronunciation is crucial for learners.



Practical AI Applications for Language Learners

AI provides practical examples and minimal pairs that assist learners in mastering English sounds effectively.



Using AI Tools for Phonemic Awareness

AI tools can enhance the awareness of phonemic distinctions, aiding in better pronunciation practices.

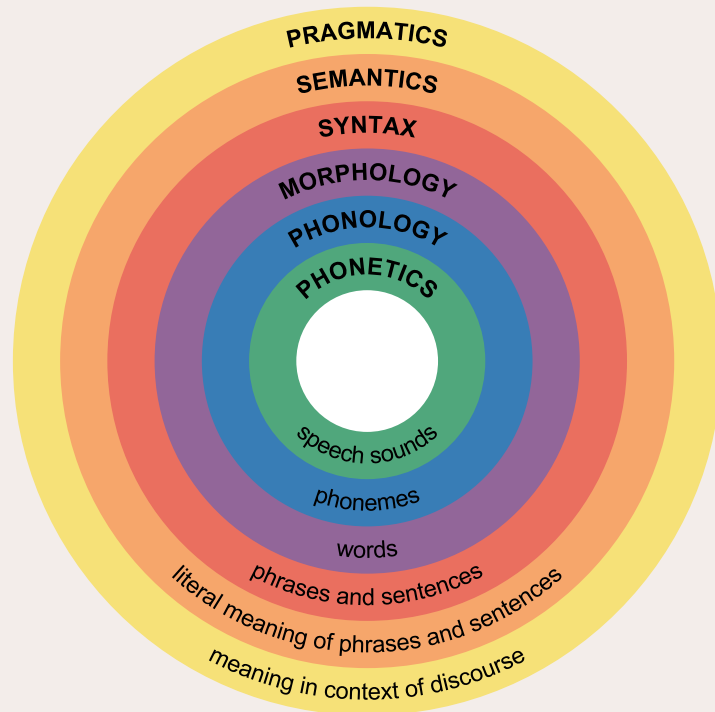


Overcoming Pronunciation Challenges with Technology

Technology addresses common pronunciation issues caused by background noise and speaker fatigue, leading to clearer communication.



Thank you



Natka Jankova Alagjozovska, PhD

natka.alagjozovska@ugd.edu.mk

www.ugd.edu.mk

<https://ff.ugd.edu.mk/>