Project application

# The English Pronunciation Project

# Project type

Practice-oriented (Applied) Project.

# Project Manager

Attila Kertesz-Farkas, Docent

# Project objectives and description of the content of the project work

Develop an (Android) app which helps non-English speaking users improve their pronunciations of English words. The core part of this project involves matching the sound produced by the user to the sound of the correct pronunciation of the word. This problem can be tackled down with using methods such as Dynamic Time Wrapping or using some Hidden Markov Models to map the speech data.

# Project timetable

Start of the project: 01.11.2020.

End of the project: 01.03.2021.

Project life cycle: iterative.

# Basic Tasks for Every Participant

1. Alina will design the User Interface and develop a visualization to give visual feedback to the user to highlight the correct and incorrect parts of his/her visualization.
2. Roma Piskunov will develop the software framework. (Program on a smartphone - Android).
3. Raevskaya Alesya would be responsible to align the correct pronunciation to the user's pronunciation.
4. All of us will be finding the training data together.
5. Alina Ovchinnikova and Roma Piskunov will be working with the data preprocessing, access the microphone of the smartphone, convert the raw speech data to spectrum.

# List of results obtained by project participants (students)

Following the development of the module, the following results should be achieved:

# Target audience of the project (recommended for participation in the project)

2-3 course.

# The Possible Number of Participants

No more then 3.