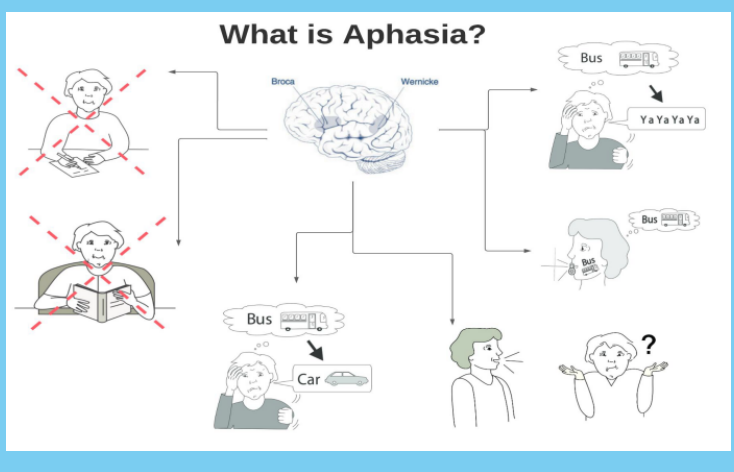
DEVELOPING COMPUTATIONAL MODEL FOR IMPROVING SPEECH PRODUCTION AND COMPREHENSION IMPAIRMENT OF PEOPLE WITH APHASIA

WHAT IS APHASIA?

Aphasia primarily affects different levels of speech processing and causes disruption between higher and lower levels of speech processing. Damage to the connection between these two levels results in speech production and comprehension impairment.



THE AIM OF THE STUDY

The aim of this study is to use a top-down and bottom-up approach to facilitate information flow between higher and lower levels of speech processing through the implementation of the CDP, WEAVER++, and HSFC models. Implementation of the models allows us to use different strategies and techniques, such as cueing, priming, and fingerspelling, to improve speech production and comprehension impairments in different types of aphasia.

TARGET GROUP

The target group will be selected from patients with Broca's, Wernicke's, conduction, and anomic aphasia. Patients are selected regardless of age and gender and should have adequate hearing, vision, and normal motor articulation for the test.

PROJECT PROTOTYPE