PROJECT SUMMARY

Ref No.: MRIC/IBG3-RI-A007	**Title:** Automated Speech and Language Disorder Assessment for Rodriguan Creole-Speaking Children: A Machine Learning-Based Mobile Application
Local Institution: Closing The Opportunity Gap Learning Solutions Ltd	
Project Leader	
Dr Marie Sophia Anick Tolbize	Closing The Opportunity Gap Learning Solutions Ltd

TECHNICAL ABSTRACT

Children may experience a variety of speech and language disorders that can affect their ability to communicate effectively. If left untreated, these difficulties may impact academic, social and emotional outcomes as well as adjustments in adulthood. Yet, most children have limited access to services on Rodrigues island, due to lack of professionals and ack of culturally relevant assessments and interventions. However, the digitalization and automatization of the assessment and intervention process present a promising avenue to tackling these challenges. The aim of this project is thus to develop a mobile application that makes use of machine learning (ML) and artificial intelligence (AI) to analyze speech and language patterns to automate the identification of targets for future interventions.

Key Words: Speech, language, disorder, Rodrigues, machine learning, artificial intelligence, assessment, creole