

# A Study on Integrating Retrieval-Augmented Generation with Large Language Model for Consulting Support in Development and Mental Health of Children Under 6 Years Old

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***Tóm tắt nội dung***—Currently, the need for psychological health as well as parents' concerns about the rate of development of children is very high due to the growing number of cases of autism, Autism Spectrum Disorders (ASD), developmental delays have been discovered in recent years. However, most people are not well aware or well-gathered about this issue. Therefore, parents or relatives of the child have not yet given a correct objective assessment of these diseases. The use of the RAG framework, in conjunction with LangChain and using a Large Language Model (LLM) will help people learn and receive better results about mental health-related diseases and developmental milestones that children under 6 years old need to achieve

## I. INTRODUCTION

With the continuous development of machine learning and deep learning, AI has been a powerful assistant in supporting people in most areas. The field of child mental health and development assessment is chosen by the team to learn, study the uses and challenges that an RAG, LangChain and LLM architecture can bring and encounter.