

# IMPAIRATHON 2024

## Basic Details of the Team and Problem Statement

Ministry/Organization Name/Student Innovation:

KARPAGAM INNOVATION AND INCUBATION  
COUNCIL

Problem Statement Title:

PERVASIVE DEVELOPMENT: System to develop  
communication system for Autistic children

Team Name: CENTAURS

Team Leader Name: Anil Katroth

Institute Name: Rajiv Gandhi University of  
Knowledge Technologies, Basar

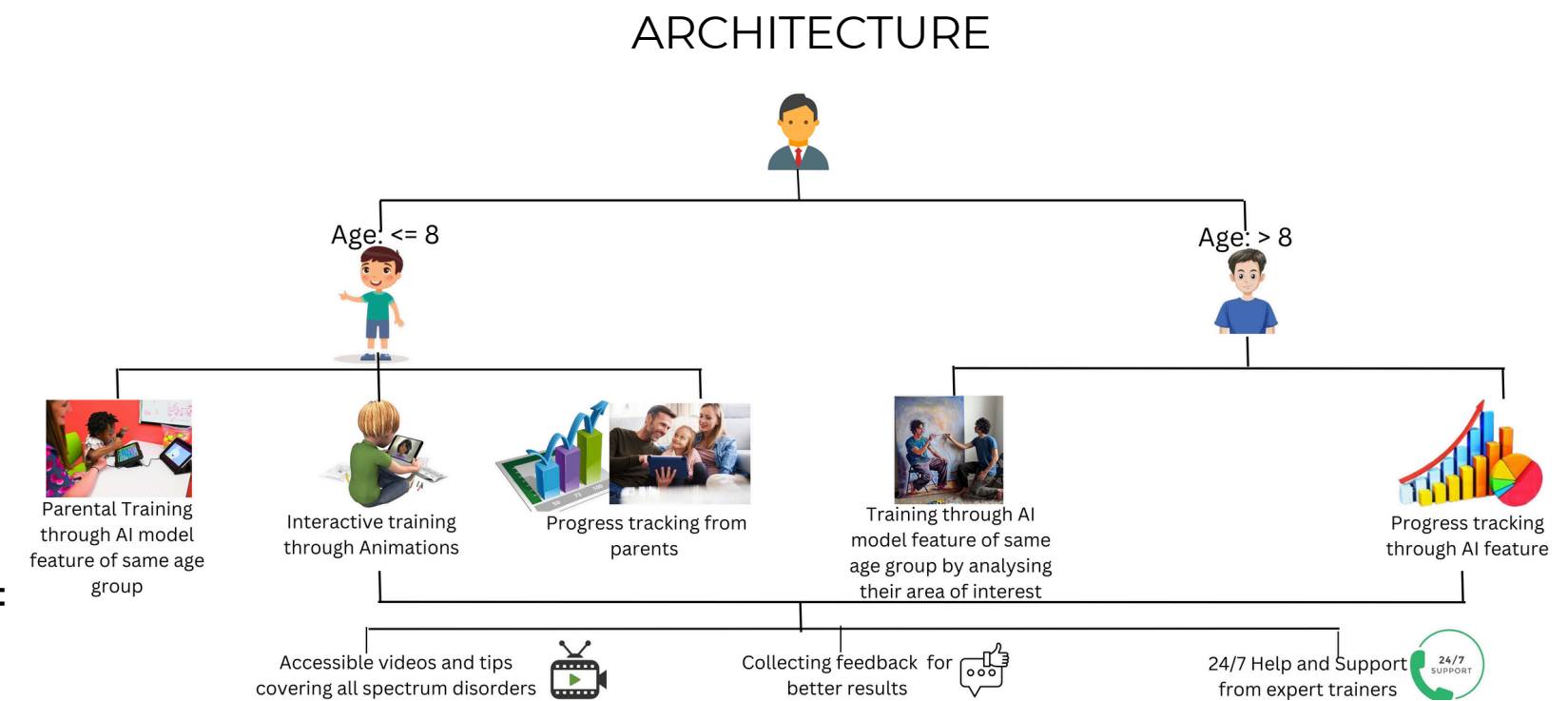


# Idea/Approach Details

**IDEA / SOLUTION :** Implementation of an interactive AI model of same age group to treat autism by tracking the progress of the individual.

- ➔ Unique software that utilize an AI model that communicates like a peer of the same age group.
- ➔ Tailored activities for kids below 8. Teens lead fun activities for those above 8, improving communication through their interests in singing, dancing, and arts, etc.
- ➔ Comprehensive section offering available solutions and tips for parents to support their children effectively.
- ➔ Provide detailed reports to parents and allow them to share feedback with the AI, which personalizes future conversations

Special Focus on Teenagers where there are no system to treat them



## TECHNOLOGY STACK:



# Brief Description

Our project aims to revolutionize communication for autistic children through a multifaceted digital tool. Integrated with a peer-like AI feature, our software provides engaging conversations tailored to each child's age group. We offer age-specific activities, interactive animations, and games that teach life skills, enhance cognitive abilities, and address educational and social needs.

A unique aspect is our focus on teenagers, leveraging their interests in singing, dancing, and arts to improve communication. Parents receive detailed progress reports and can provide feedback for personalized interactions. A comprehensive section provides practical tips and raises awareness to support effective parenting. Additionally, we include contact information for psychologists and emergency details. Together, these features aim to enhance communication skills and the developmental experience for autistic children.

# Team Member Details

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Team Leader Name: Anil Katroth

Stream : CSE

Year : IV

Team Member 1 Name: Gulimi Keerthi

Stream : CSE

Year : IV

Team Member 2 Name: Sripriya Chinthakindi

Stream : CSE

Year : IV