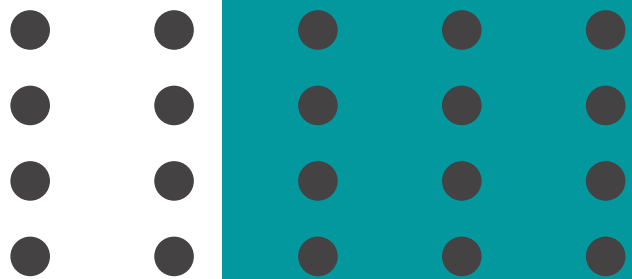
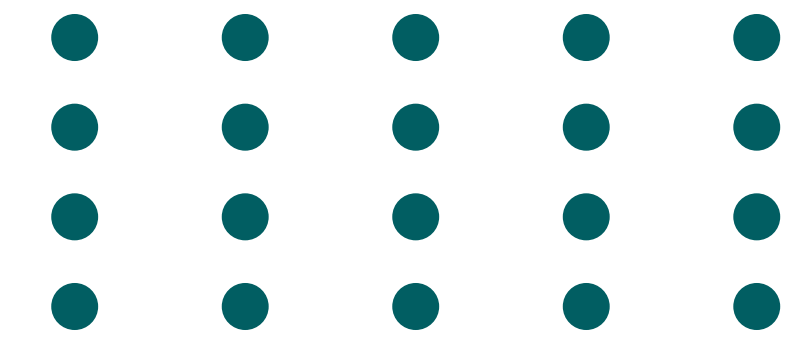




# SUMMER INTERNSHIP

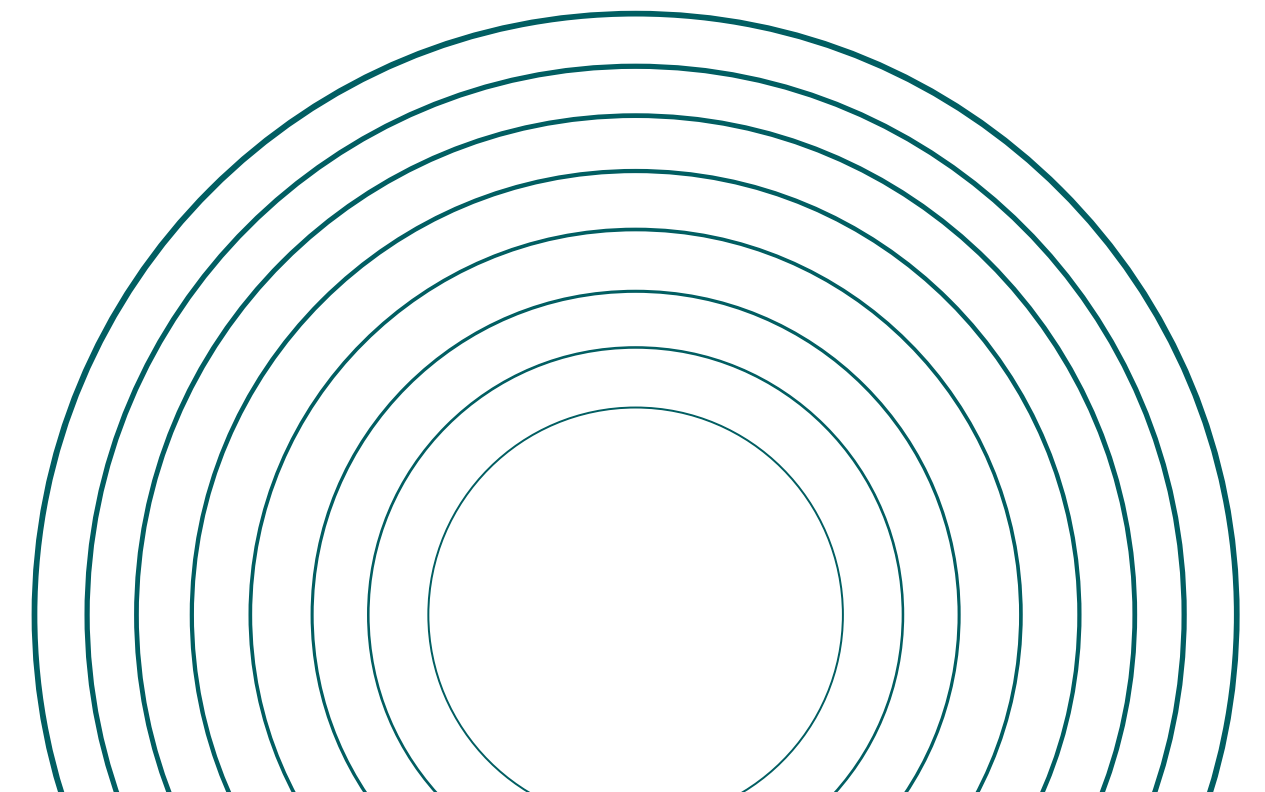
Multimodal Perception Lab  
IIIT-Bangalore





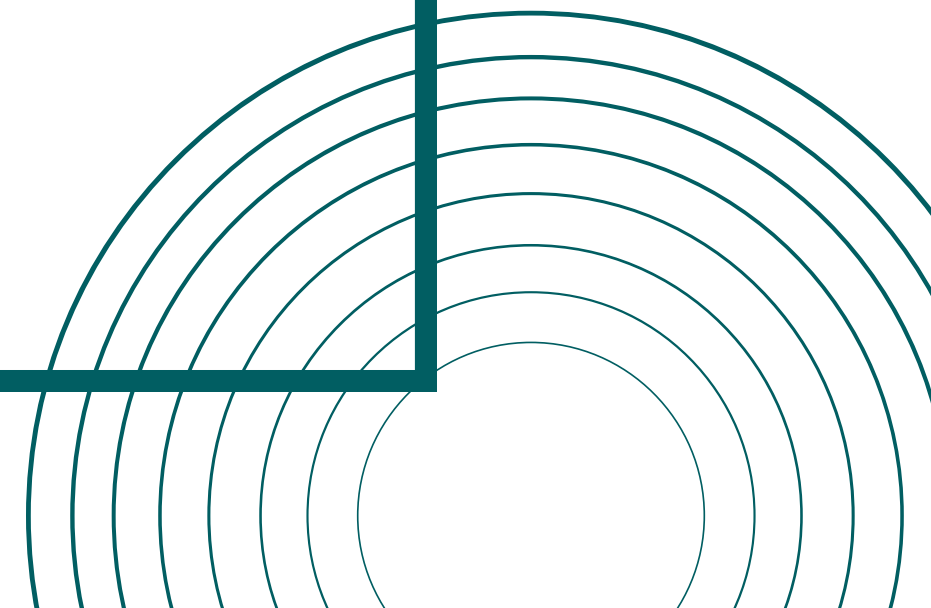
# CONTENTS

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# PEOPLE

- **Prof. Dinesh Babu**
- **Mentor: Ms. Jeba Berlin**
- **Vidhish Trivedi**
- **Deepkumar Patel**





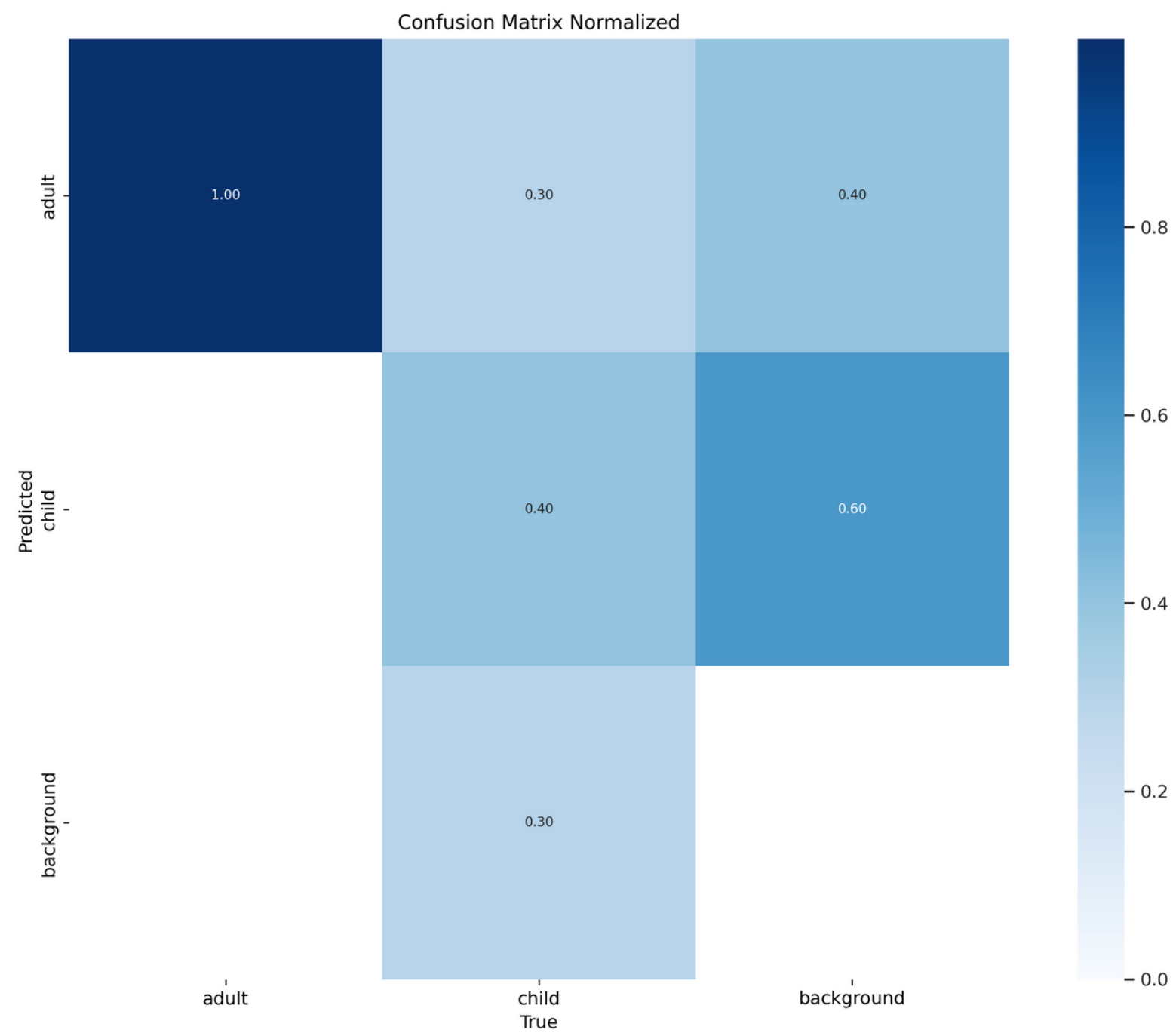
# PROJECT DESCRIPTION

- The objective of this project is to utilize recorded sessions (video) to predict whether a child has autism or not.
- Our initial focus is on training a model capable of detecting objects belonging to child and adult classes within an image.
- To accomplish this, we are currently using the YOLOv8 framework.

## **WORK SO FAR...**

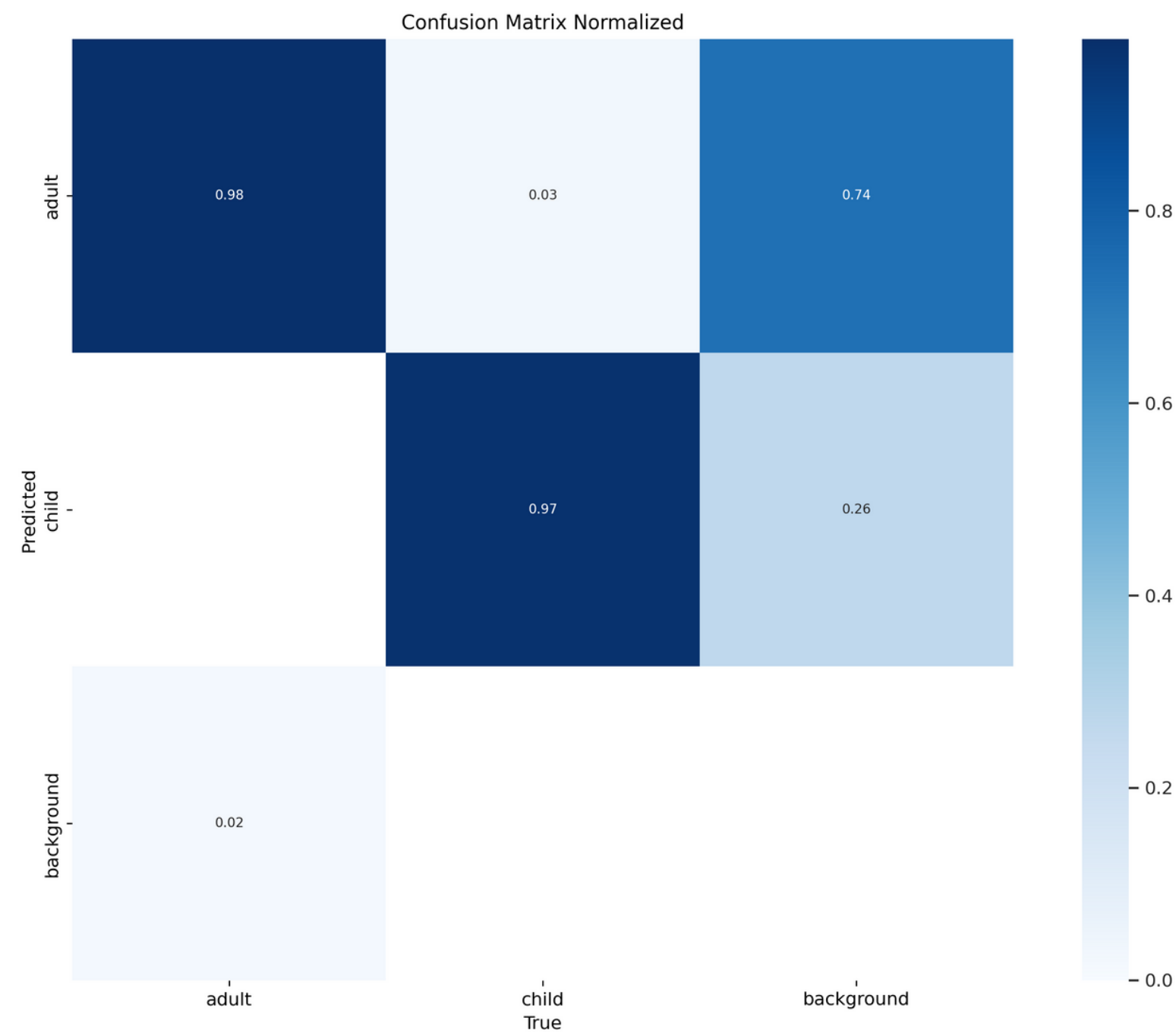
- **We first gathered images (around 250) from the internet for our dataset and annotated them with bounding boxes.**
- **The results obtained from training variations of the YOLOv8 model on this dataset were not good.**
- **Our mentor then shared a dataset of short videos from which we extracted 1013 images (710 training, 150 validation, 153 testing).**
- **We trained YOLOv8s model on this new dataset and have made progress in terms of results and predictions that this model makes.**

# RESULT SUMMARY



Old dataset with around  
250 images

# RESULT SUMMARY



New dataset with around  
1000 images



# **OTHER THINGS**

**Exploring  
Tensorflow  
and Pytorch**

**Reading  
papers shared  
by our mentor**

**Understanding  
CNNs through  
online  
resources**



**THANK YOU!**

