

**iris**

see the world



# 250 million

people in the world have a visual impairment

## ON DEVICE

## ON THE CLOUD

Audio From Microphone

Question Text String

Speech To Text

Wake Word  
Recognition

Image from Camera  
Module

Object Description as  
JSON

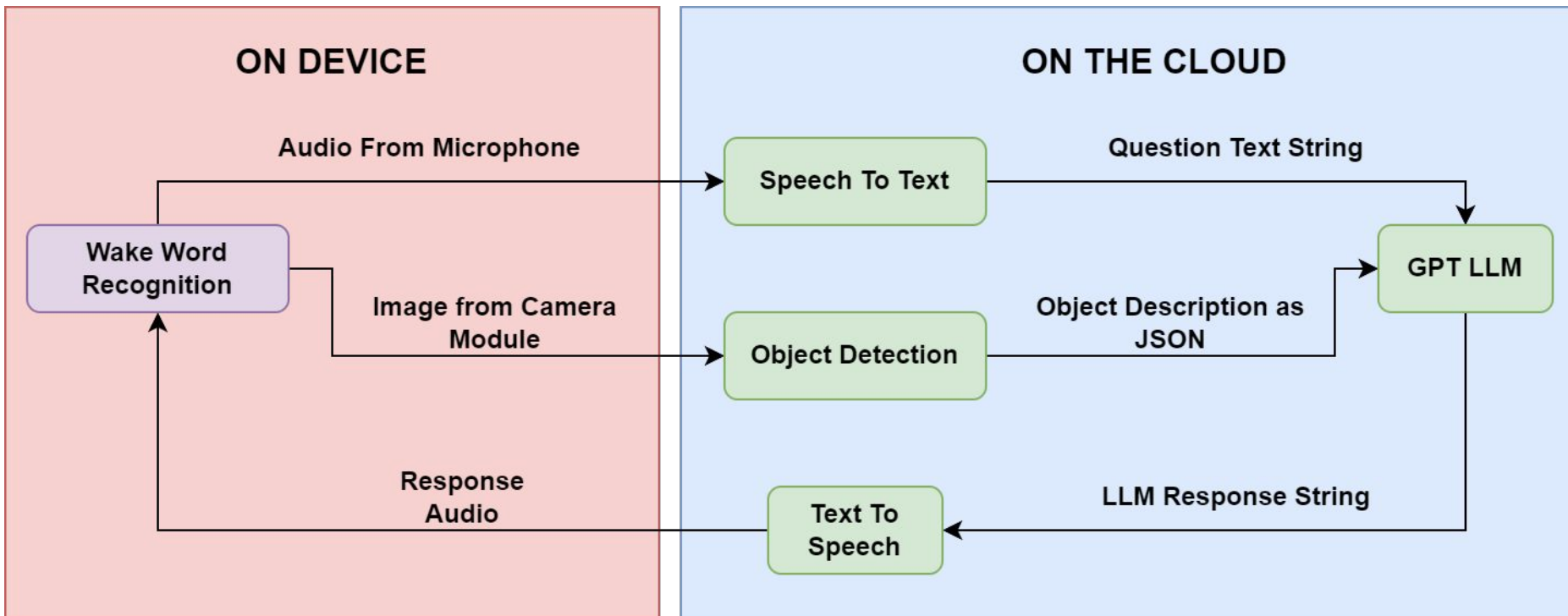
Object Detection

GPT LLM

Response  
Audio

LLM Response String

Text To  
Speech



**OK, IRIS**



Model

Model version: ?

Quantized (int8) ▾

Last training performance (validation set)



ACCURACY

92.1%



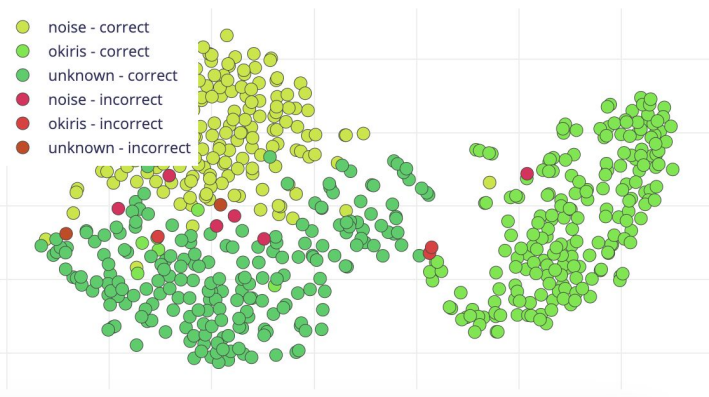
LOSS

0.20

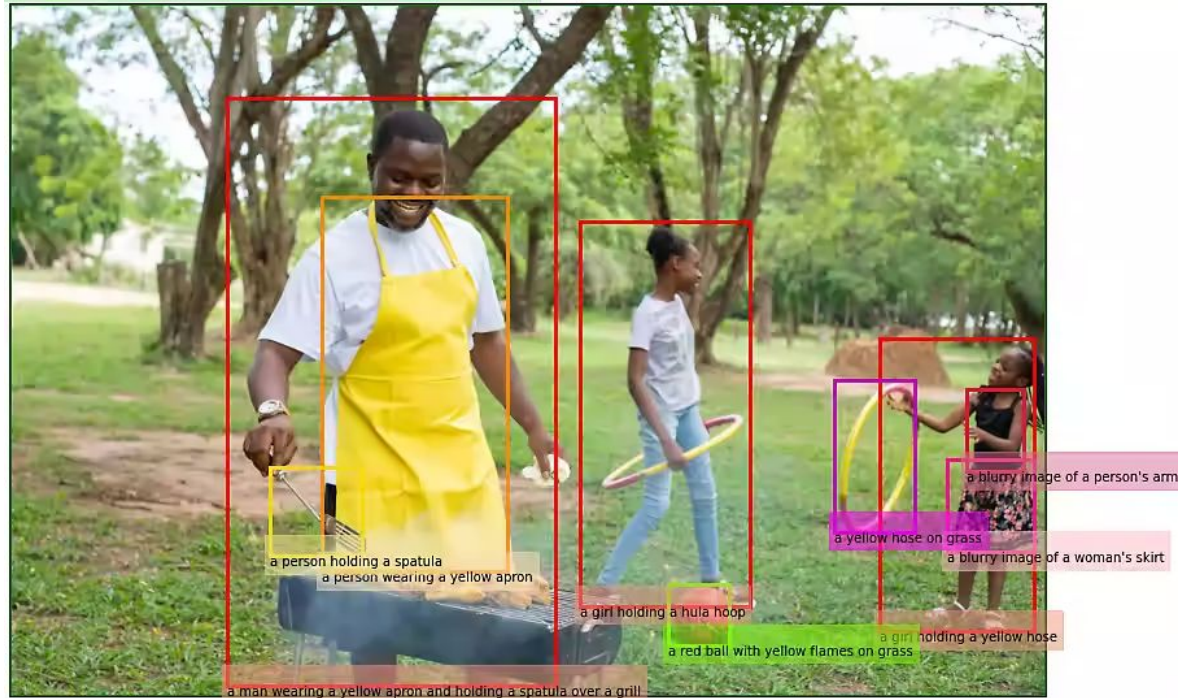
Confusion matrix (validation set)

|          | NOISE | OKIRIS | UNKNOWN |
|----------|-------|--------|---------|
| NOISE    | 86.5% | 2.7%   | 10.8%   |
| OKIRIS   | 5.1%  | 92.3%  | 2.6%    |
| UNKNOWN  | 3.9%  | 0%     | 96.1%   |
| F1 SCORE | 0.88  | 0.95   | 0.93    |

Data explorer (full training set) ?



a man in a yellow apron cooking meat on a grill with a woman in the background





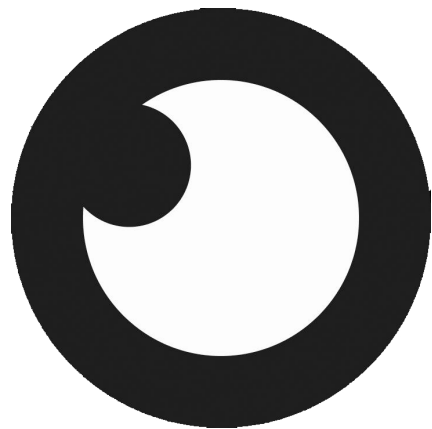
Google Cloud



OpenAI



# **Future Improvements**



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