

# Comparison System for Image Detection Algorithm

Xbox seeks to create a safe place for everyone to play and have fun. To improve gamers' experience, they want to evaluate and compare which technology performs better in terms of detecting unsafe images.

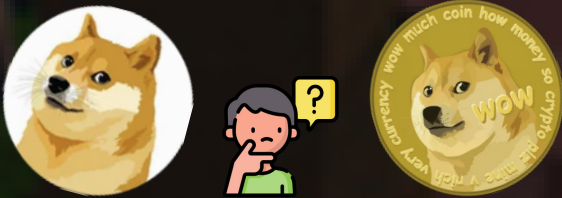


Comparison System

## INITIATION

### Problem

Similar unsafe images are hard to be detected on a large scale



### Goal

Create a system to find the optimal threshold for each technology, and to compare performance between technologies

## PROCESS

Users Image requests



Similarity score generation  
(C#, .Net framework)



Data analysis  
(160,000+ comparison results)



Results on the report



## KEY OUTCOMES

### System framework

Deployed on Azure Function  
Contains 3 servers  
Local and cloud implementation

### Data analysis pipeline

Comparison methodology  
Metrics construction in Python  
Live dashboards

## KEY BENEFITS



### For Xbox team

Provide pipelines for similar algorithm evaluation and make better use of the two technologies based on context



### For Gamers

Improve user experience by filtering the unsafe images and provide a healthier online environment