DIGITAL EMPOWERMENT

HEINEKEN VIETNAM

AGENDA

Team introduction

Input/Output introduction

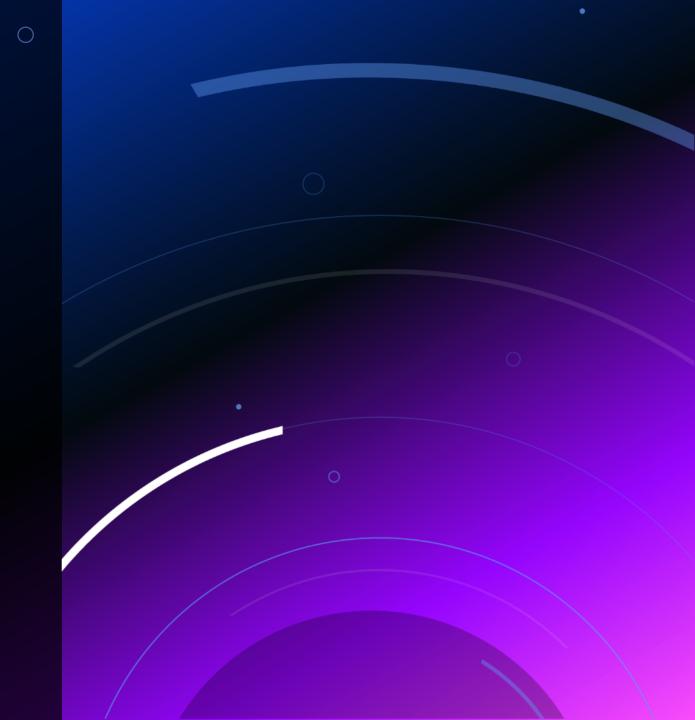
Solution pipeline

Models' information and evaluation

Demo link

Development path

Q&A



OUR TEAM



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INPUT/OUTPUT INTRODUCTION

INPUT - OUTPUT

- Input: an image
- Output:
 - Number of people, their emotions and the dominant emotion (problem no. 3)
 - Locate promotion girls, number of them, check whether it>2
 (problem no. 4)
 - Locate printed advertisings: ice boxes, ice buckets, bottles, cans, refrigerators, billboards, standees, parasols (problem no. 2)

INPUT - OUTPUT

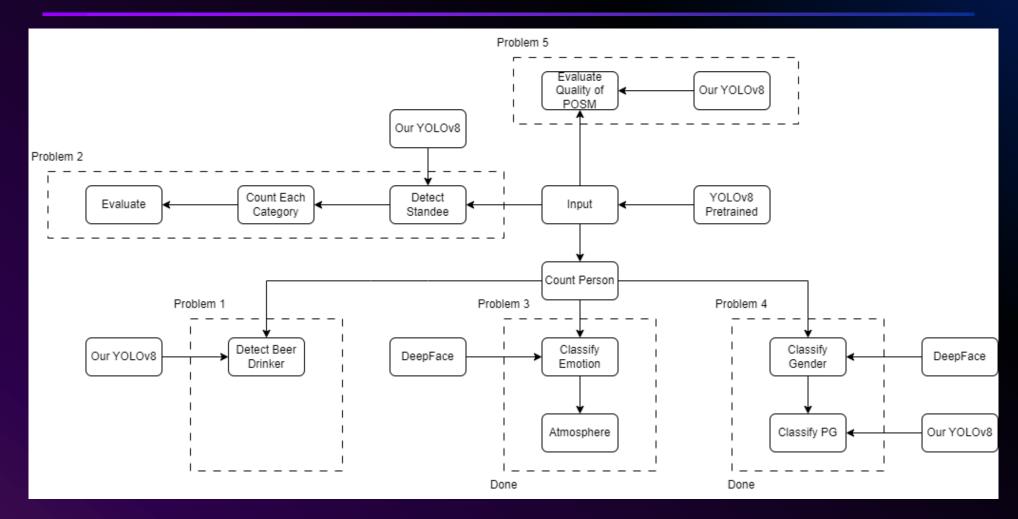
- On problem no. 4:
 - All detected promotion girls are counted, regardless of their companies
 - Female and standing individuals are taken into consideration

INPUT - OUTPUT

- On problem no. 2:
 - Printed products that are of these companies below are chosen
 - Heineken, Tiger, Bia Viet, Larue, Bivina, Edelweiss, Strongbow

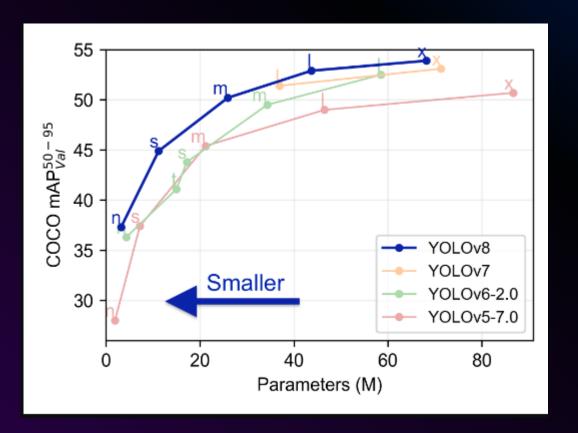
II. SOLUTION PIPELINE

SOLUTION PIPELINE



MODELS' INFORMATION

 Our solution is entirely YOLOv8-based

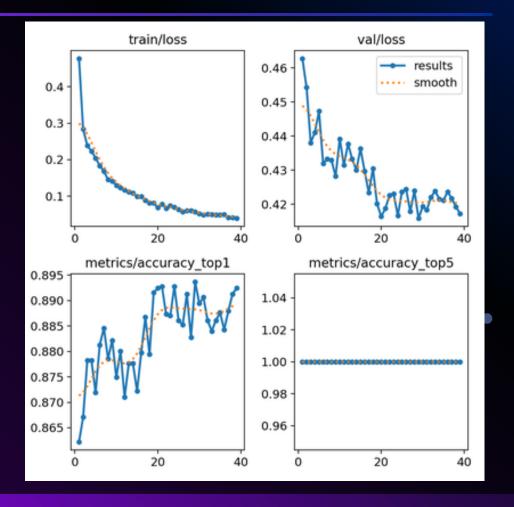


MODELS' INFORMATION

 For face detection in problem no. 3, we utilize a pretrained YOLOv8m on WIDERFace, which is available in DeepFace framework

MODELS' INFORMATION

 For detecting promotion girls, we fine-tune YOLOv8m on ... to check whether a person is sitting or standing



DEMO LINK

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https://drive.google.com/file/d/1vQOXEvuzBbg69ytEg b7fxF-KccDPy10S/view?usp=sharing

DEVELOPMENT PATH

DEVELOPMENT PATH

- Spend more time labelling dataset provided by the organizers
- Find a method of effective and automative data labelling instead of doing it manually
- Find a method capable of detecting small promotional materials (printed advertisings)

Q & A