

ISABEL LÜSCHER

DEEP BEAUTY

THE POWER OF DEEP MACHINE LEARNING
TO HELP ACHIEVE THE BEST VERSION OF YOURSELF

W W W . D E E P B E A U T Y . C O M

IRONHACK 2024

MAKEUP IS FUN!!! AND THE INTERNET IS FULL OF TUTORIALS!



BUT SOMETIMES IT JUST GOES A LITTLE WRONG...



WHAT THE MAJORITY OF PEOPLE DON'T KNOW IS THAT



MONOLID



DOWNTURNED



UPTURNED



HOODED



PROTRUDING

YOUR EYE SHAPE MAKES ALL THE DIFFERENCE !



DEEP-SET



DOWNTURNED



MONOLID



ROUND

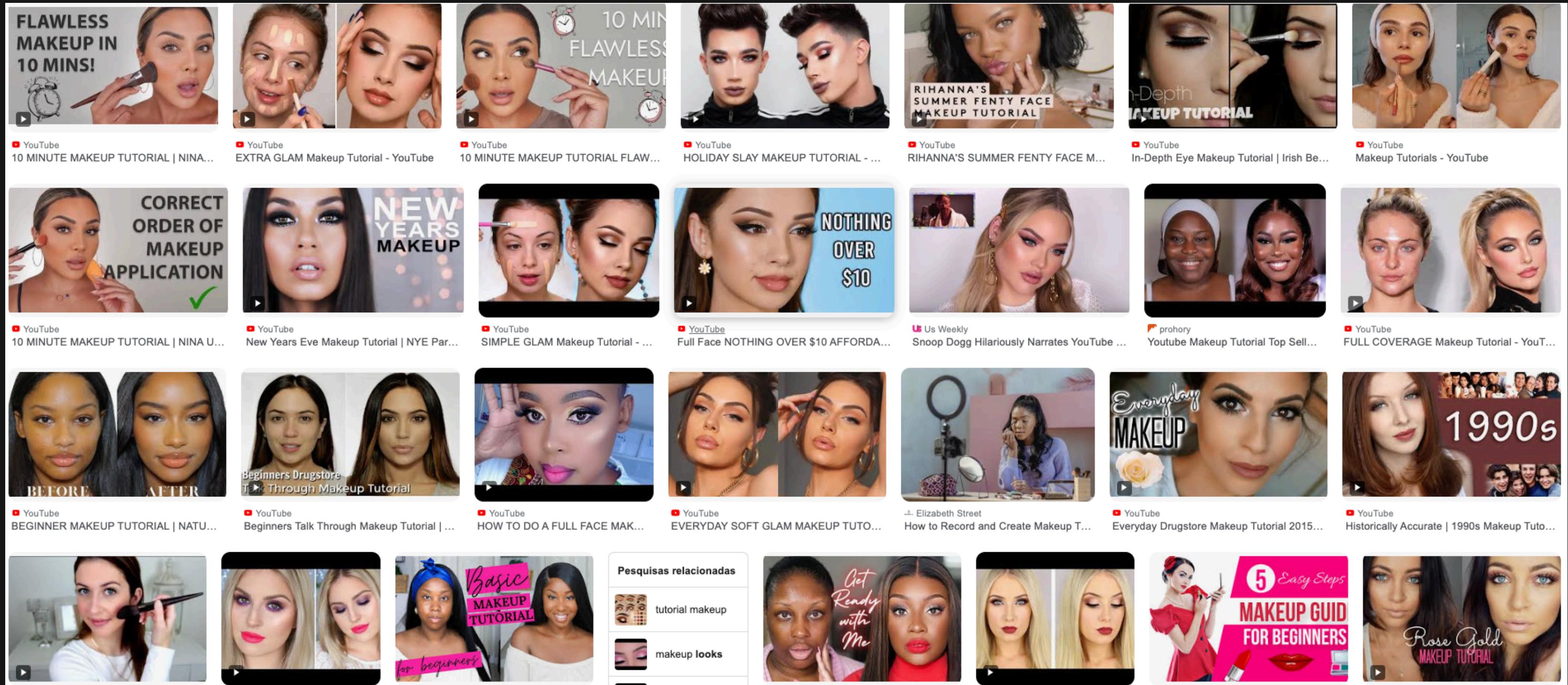


HOODED

BUT

DO YOU KONW WHAT IS YOUR EYE SHAPE?

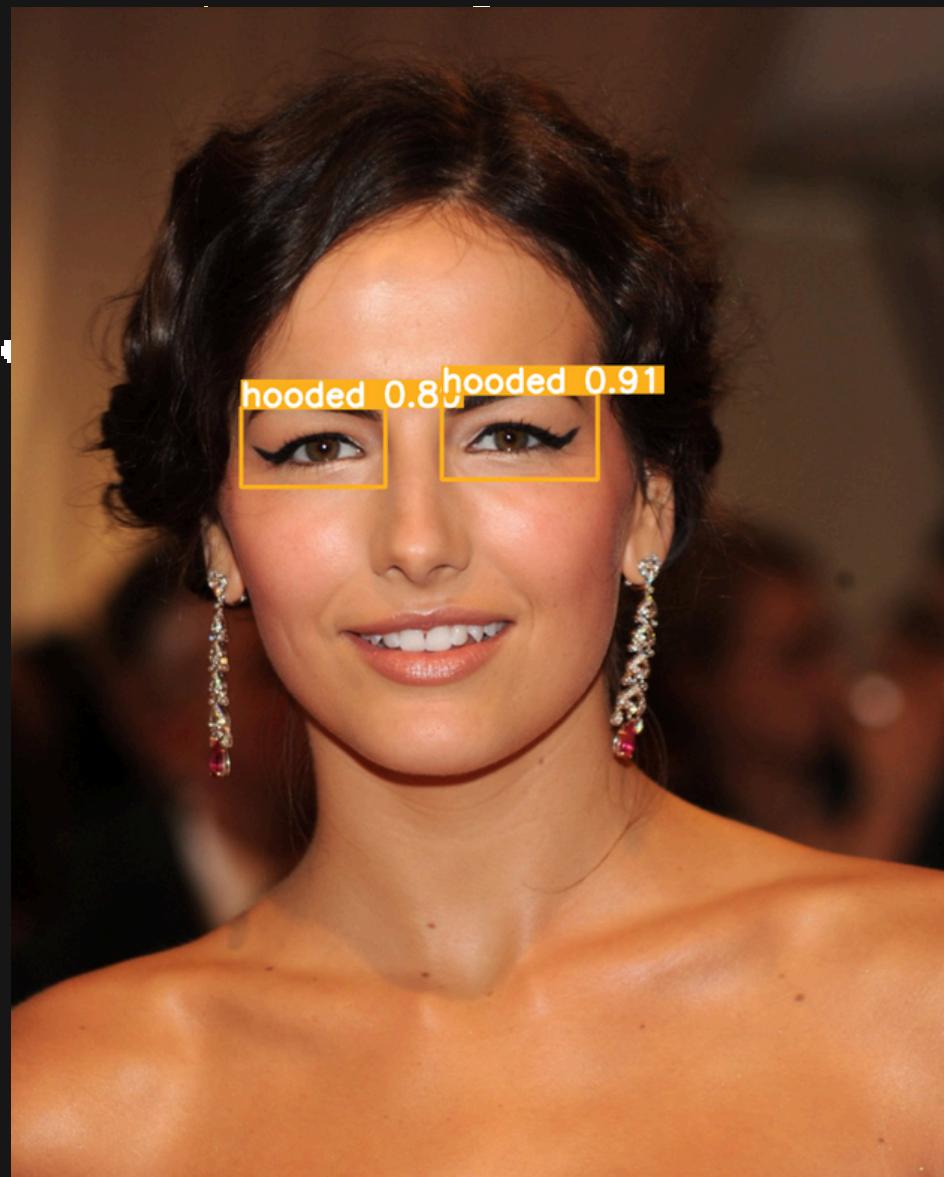
AND HOW TO PICK THE BEST OF YOUTUBE FOR YOU?



DEEP BEAUTY USES THE POWER OF NEURAL NETWORKS TO IDENTIFY YOUR EYE SHAPE



AND SUGGEST THE MAKEUP TUTORIALS FROM CREATORS WITH THE SAME SHAPE



PROVIDED BY YOLO V8

WE CREATED AN APP THAT READS YOUR EYE SHAPE FROM AN
UPLOADED PHOTO, OR USING THE CAMERA OF YOUR COMPUTER

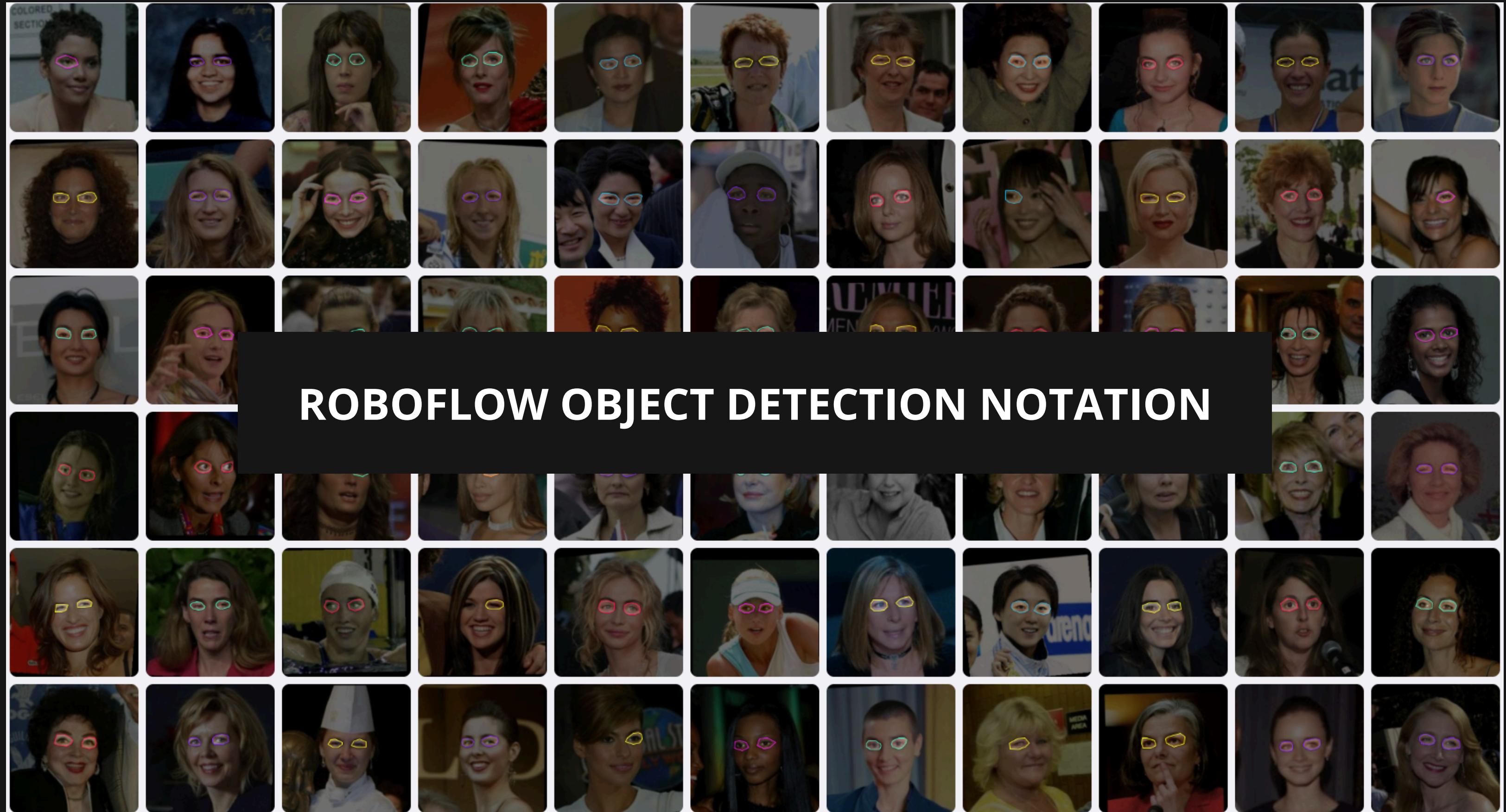


The dataset was created using the female faces contained in the Labeled Faces in the Wild

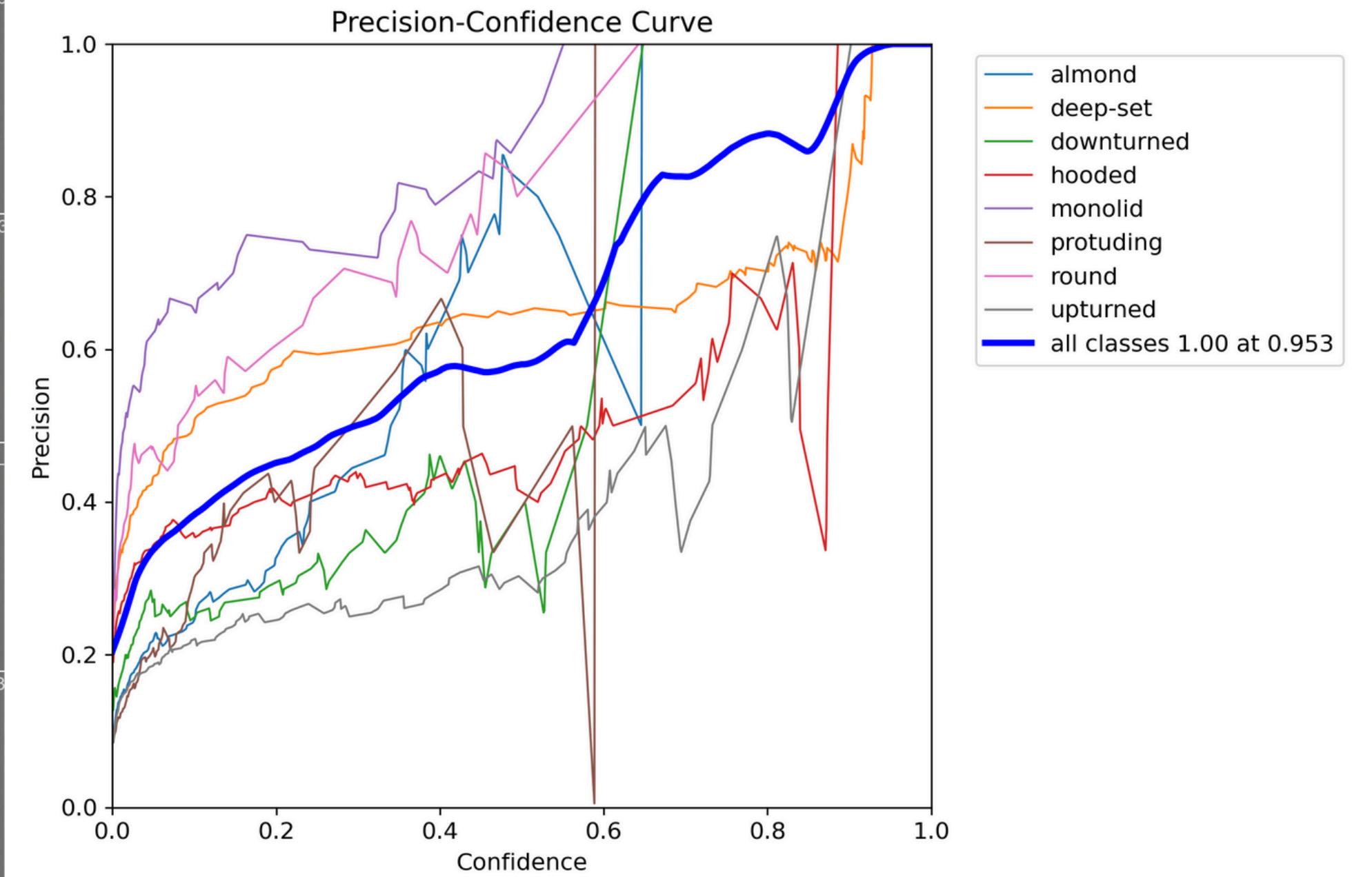
University of Massachusetts, 2007



From almost 13000 total images **1054** were selected and classified, with the help of Roboflow



ROBOFLOW OBJECT DETECTION NOTATION



150 epochs were trained using the YOLO V8

CHALLENGES:

INTEGRATION OF THE MODEL AND THE CAMERA ON STREAMLIT - PROBABLY DUE TO THE VERSION OG YOLO

QUALITY OF THE DATASET - IMAGES WITH LOW RESOLUTION WHEN COMPARED WITH THE CAMERA OR UPLOADED PICTURES

NEXT STEPS:

IMPROVE THE DATASET WITH MORE AND HIGHER RESOLUTION IMAGES

IMPROVE THE YOUTUBE LIBRARIES FOR EACH SHAPE

UTILIZE GENERATIVE ADVERSARIAL NETWORKS (GANS) TO CREATE DEEPFAKE VERSIONS OF TUTORIALS FEATURING THE USER'S FACE.

THANK YOU AND KEEP SPARKLING!