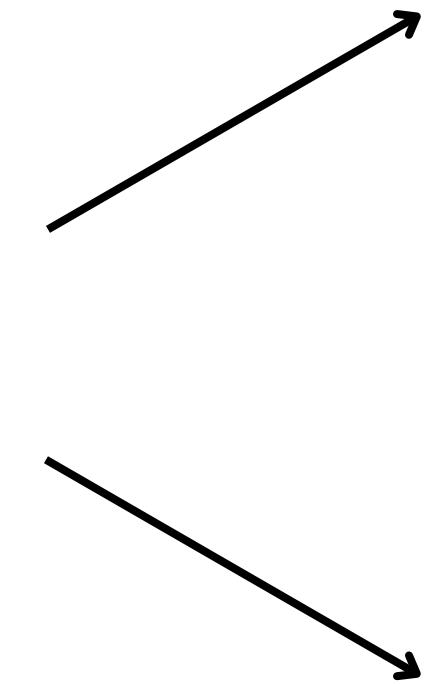
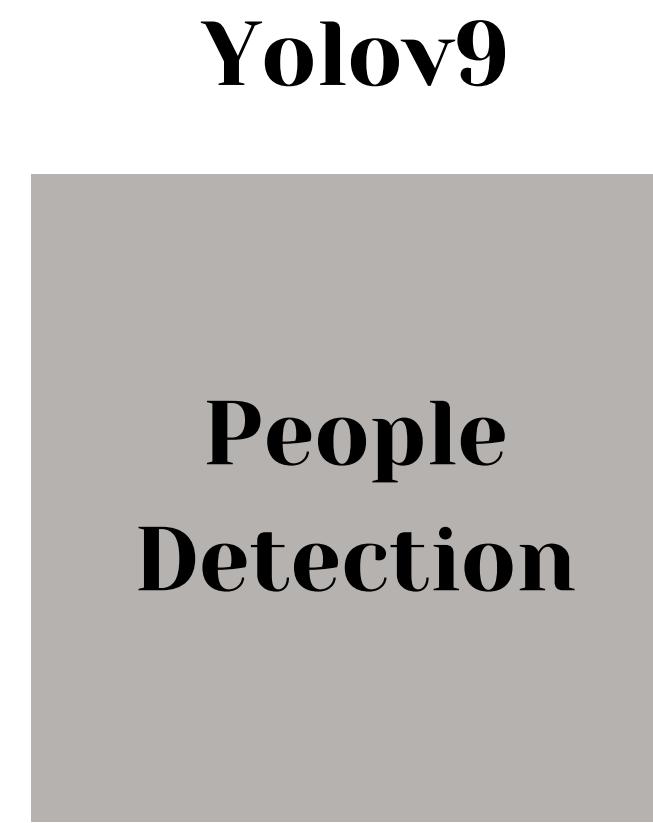


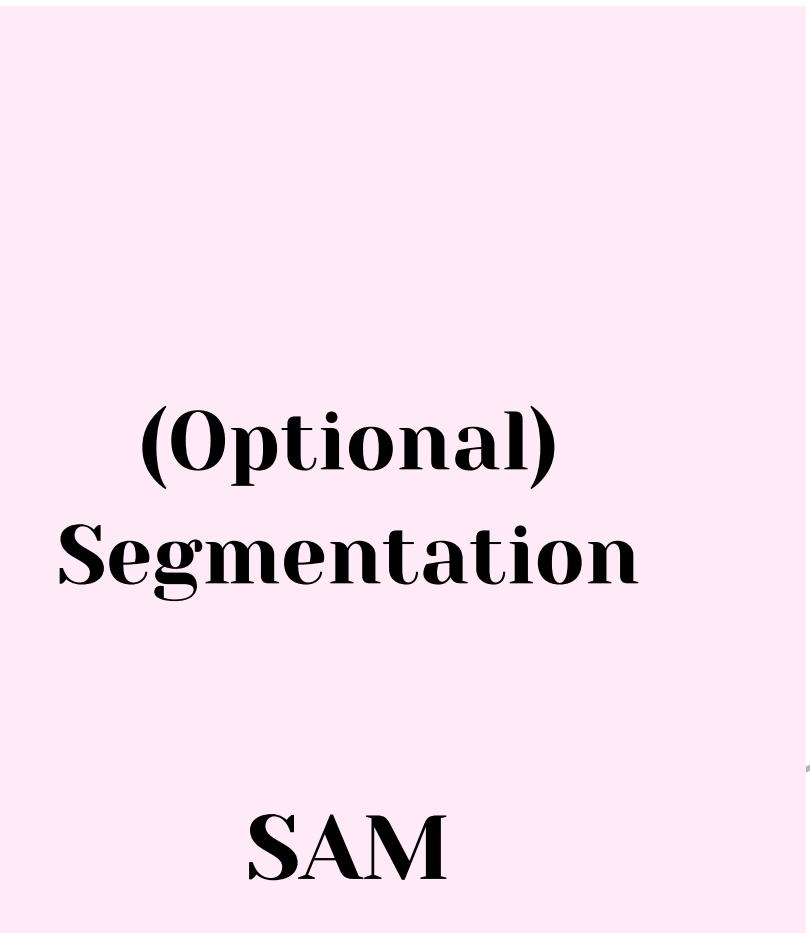
Fashion Detection

Recap

Plan B



?





DeepFasion2

Attributes (13)

- **long sleeve dress**
- **long sleeve outwear**
- **long sleeve top**
- **short sleeve dress**
- **short sleeve outwear**
- **short sleeve top**
- **shorts**
- **skirt**
- **sling**
- **sling dress**
- **trousers**
- **vest**
- **vest dress**

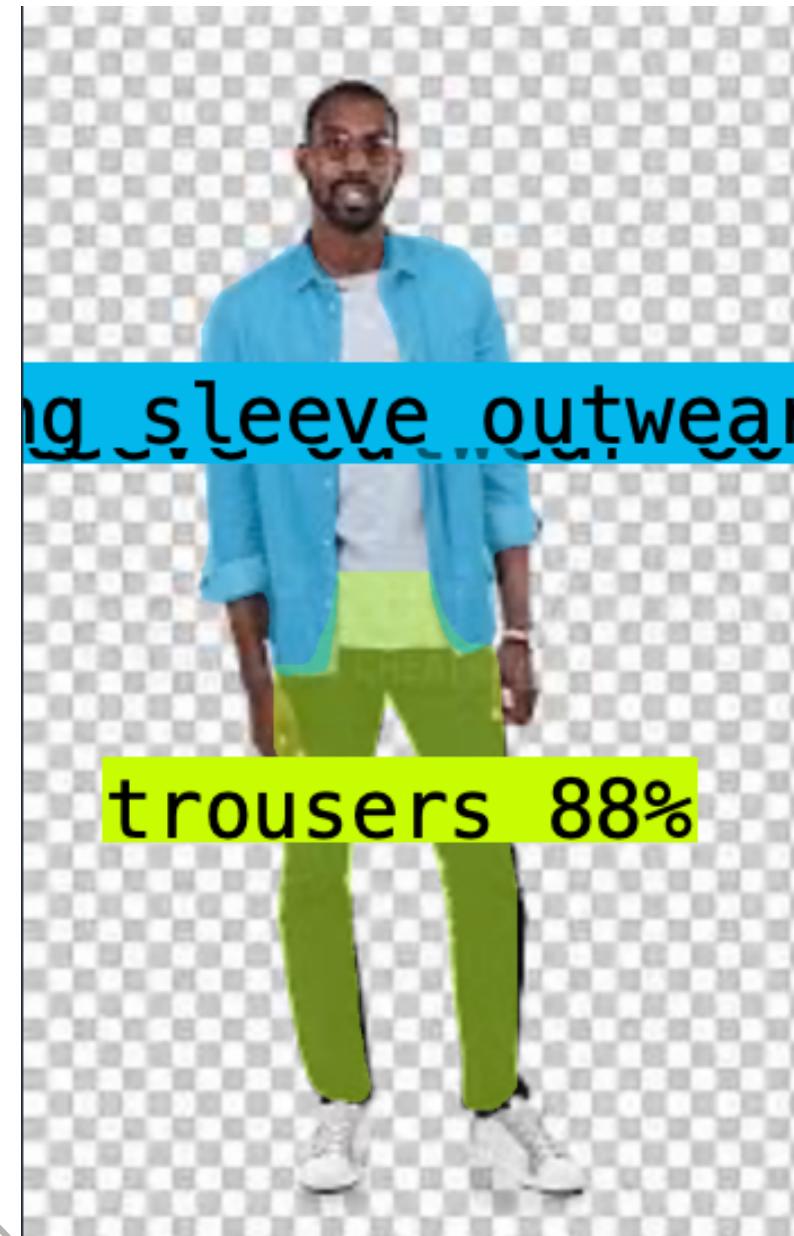
Pedestrains Classification

UPAR (Unified Pedestrian Attribute Recognition and Person Retrieval)

- **Combination of PA100K, PETA, RAPv2, and Market1501**
- **Unifies 40 attributes across 12 categories**
- **Contains 224,737 images with annotations**
- **The paper used the CNN model to train on this dataset**

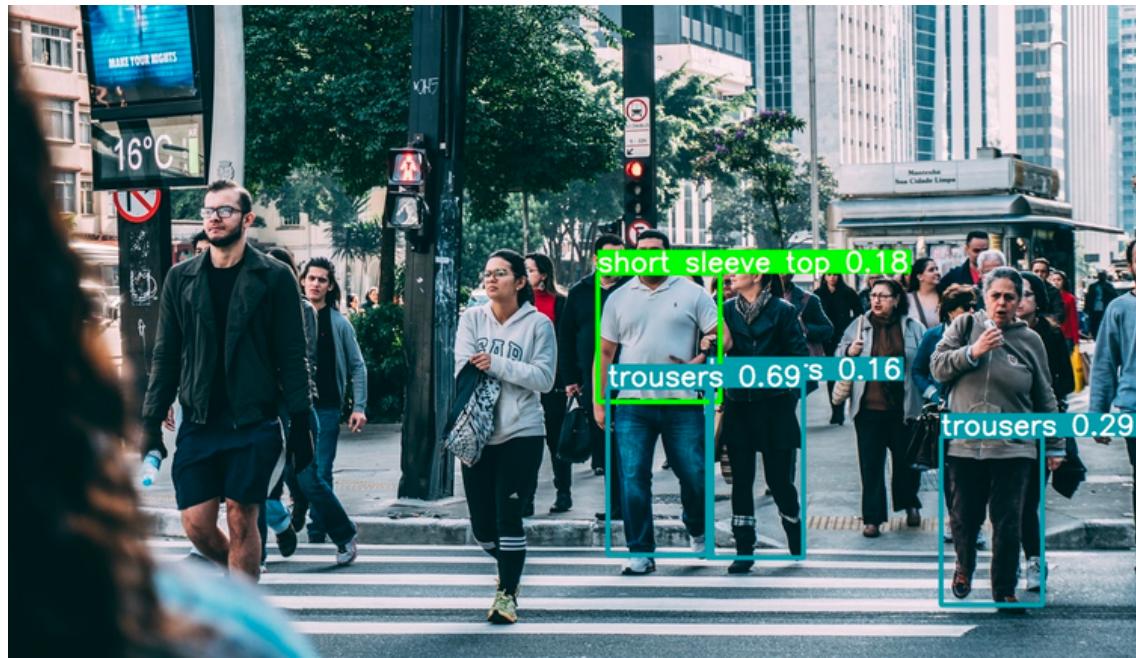
Expected Output

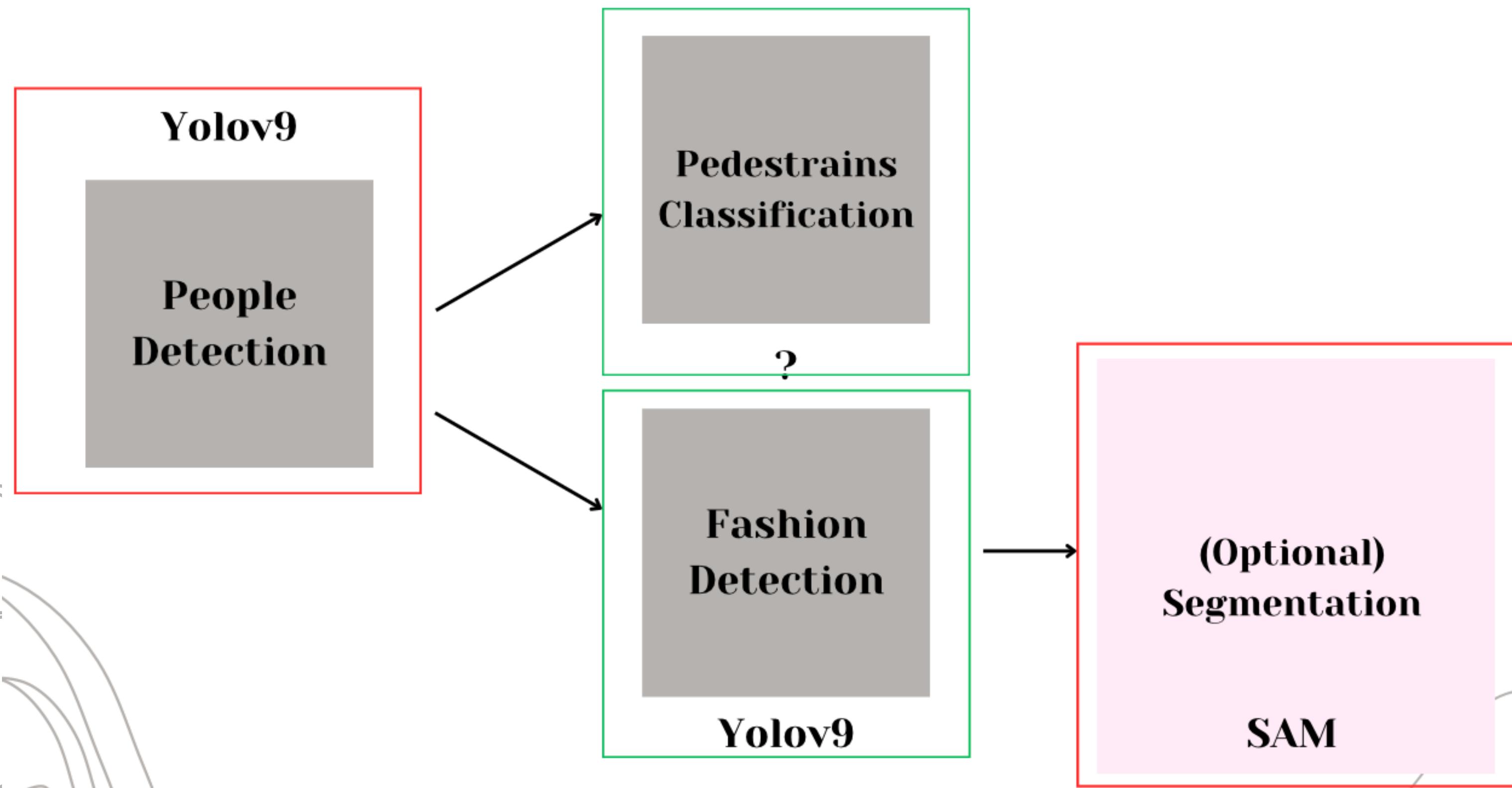
Roboflow 2.1 Instance Segmentation



Actual Output

Yolov9 trained with 20 epochs





Feedback

- Compare colorful dataset with deepfashion2
- Compare softbiometric with fashion detection



The background features a minimalist design with light gray, thin-lined abstract shapes. In the upper right quadrant, there is a series of concentric circles that decrease in size towards the center. The lower left quadrant contains several wavy, organic lines that curve upwards and outwards. The overall aesthetic is clean and modern, using negative space and simple lines to create a sense of depth and movement.

Today's topic

Colorful dataset

- Contains 2,682 images
- Size of 600 x 400 pixels
- 10 Attributes
- Object Detection and Segmentation tasks

DeepFashion dataset

- Contains 6600 Images
- 13 Attributes
- Object Detection and Segmentation tasks

Soft-Biometric (UPAR)

5 epochs-Multiclasses

Baseline CNN

- AVG Training
Loss: 0.1421
- AVG Validation
Loss: 0.2038

MobileNet

- AVG Training
Loss: 0.1592
- AVG Validation
Loss: 0.1704
- Fast

Inception Resnet

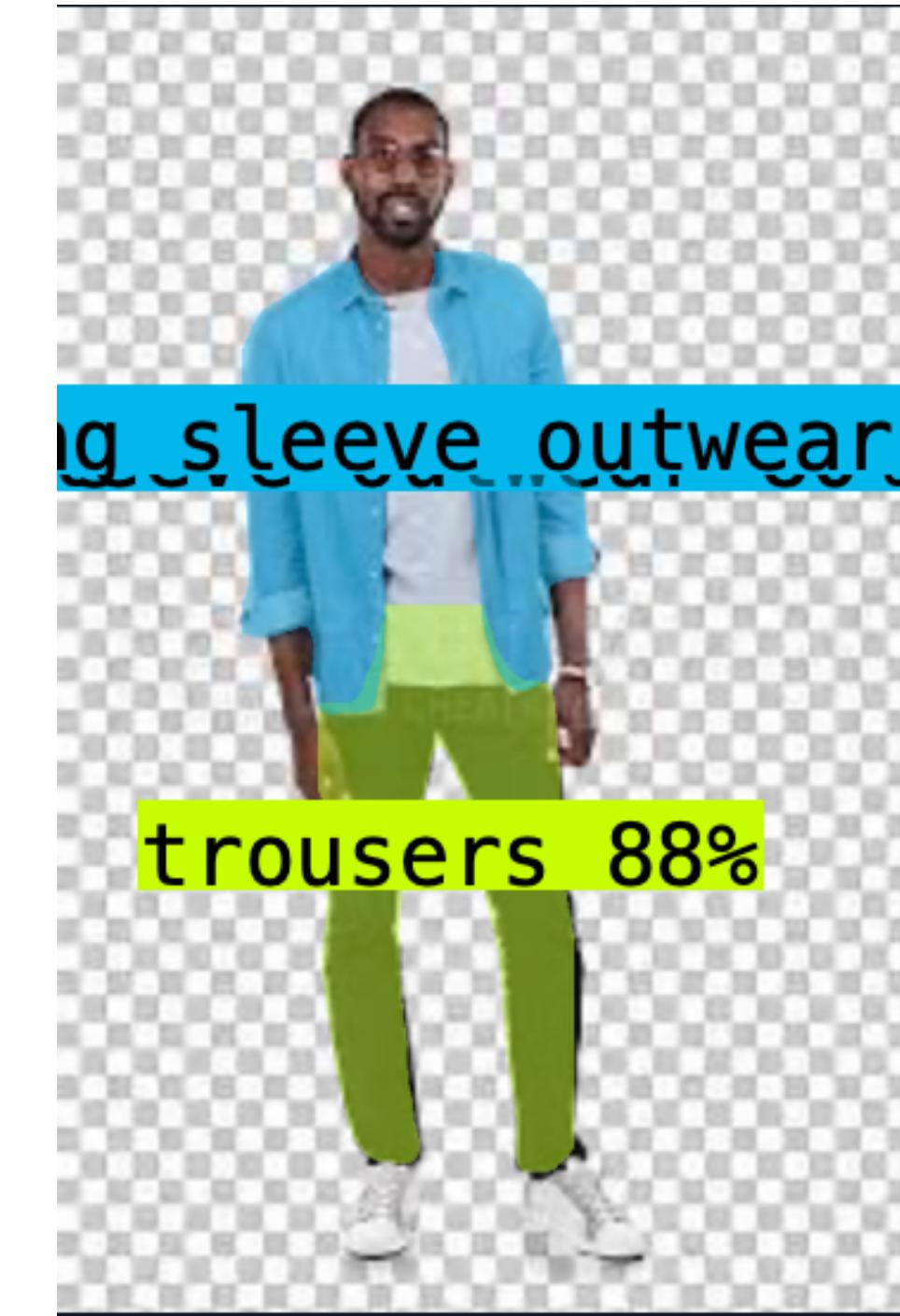
- AVG Training
Loss: 0.1535
- AVG Validation
Loss: 0.1702
- Accuracy

Model Evaluation

Yolov9



Roboflow



Yolov9



Roboflow



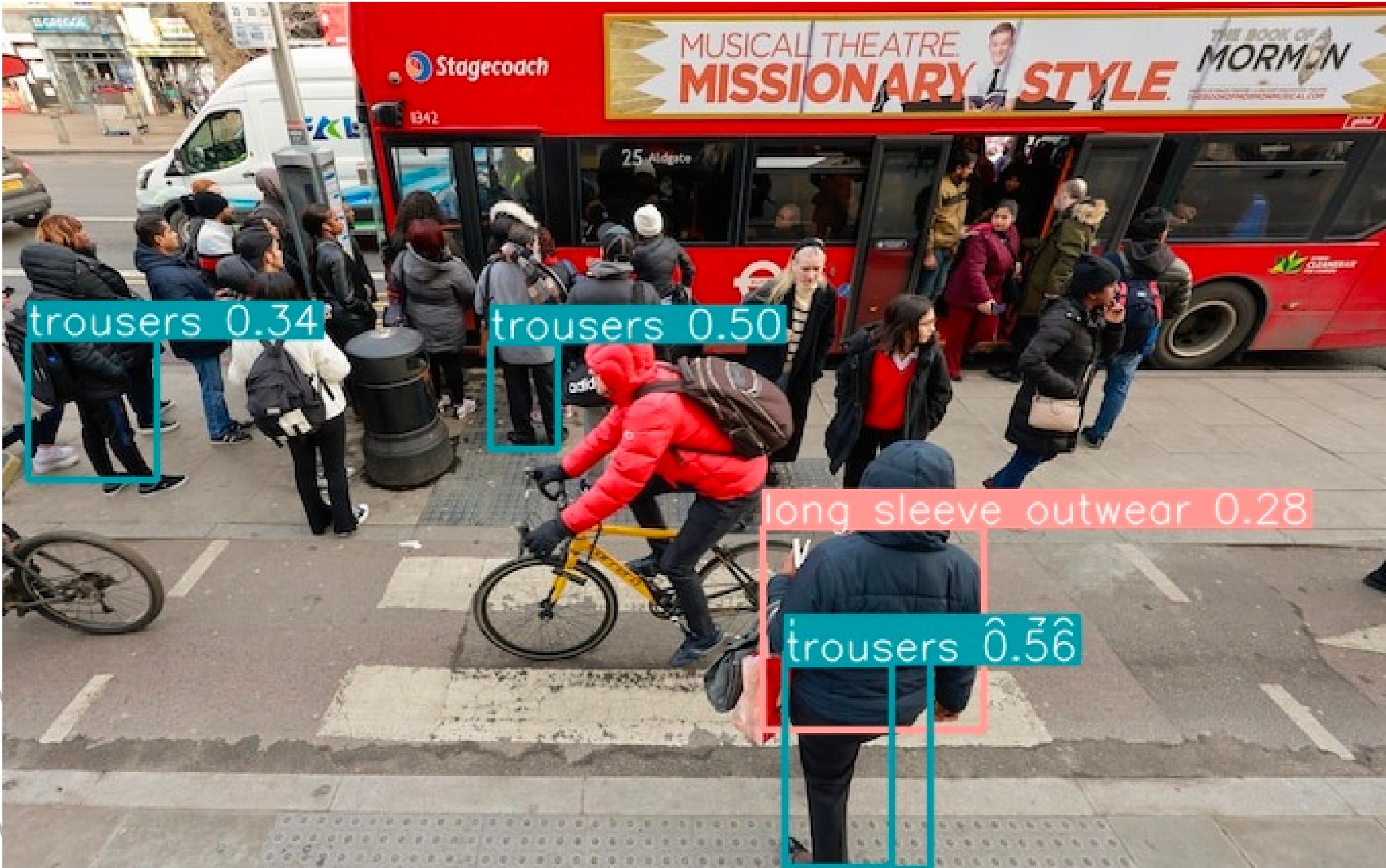
Yolov9



Roboflow



Yolov9



Roboflow



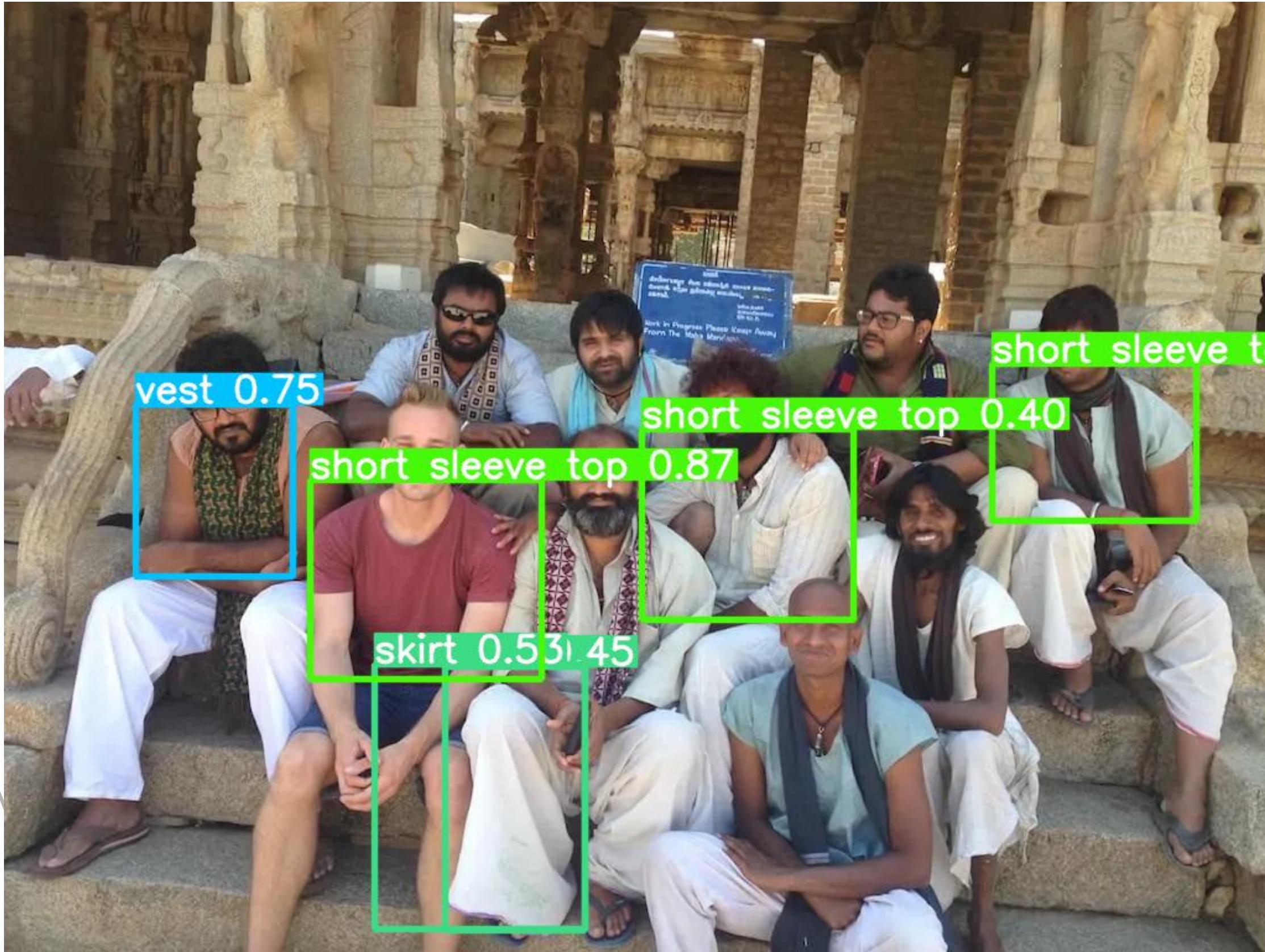
Yolov9



Roboflow



Yolov9



Roboflow



Yolov9



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SAM

Input: (1.jpg)



1.txt

Output:
Segmentation Annotation



Project

Requirements

- Data integration: Primary data \neq Secondary data
- Don't need to use both sources to train the models.

ThermalWear



A project that detects clothing styles in images and predicts the comfort level of people based on their clothes, local temperature, and local humidity. It also provides data-driven advice to help people dress comfortably. Plus, it can also integrate the data from user feedback to enhance future predictions as well.

