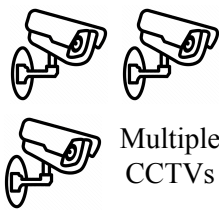


## TRAINING PHASE



Multiple  
CCTVs

Training of Customer  
Counting and  
Tracking Dataset

**Dataset Gathering**

**Model Training**

Video Input

## Computer Vision Models

YOLOv10  
(Customer Detection)

DeepSORT  
(Customer Tracking)

OSNet  
(Person Re-Identification)

**ZONING AND  
HEAT MAPPING**

Background  
Subtractor

Color Mapping

Heatmap

Region of Interest  
(Zones)

Zone Count

Region of Interest  
(Tripline)

Count Customer

**CUSTOMER  
COUNTING**

Data Analytics

