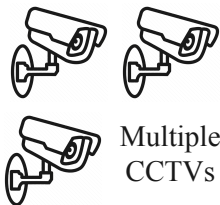


TRAINING PHASE



Multiple
CCTVs

Dataset Gathering

Training of Customer
Counting and
Tracking Dataset

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