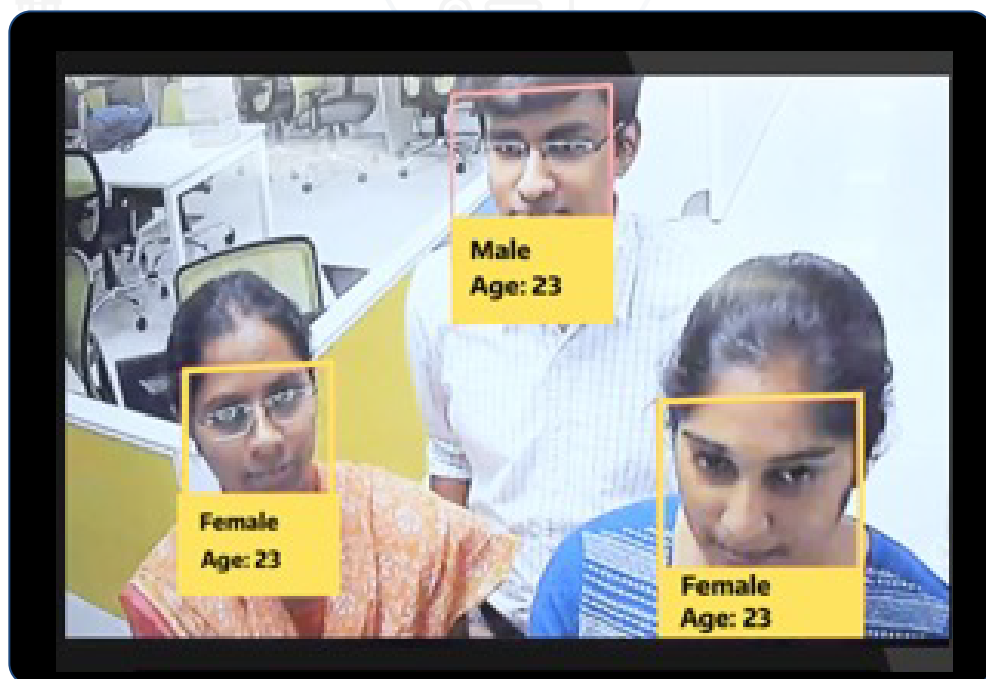
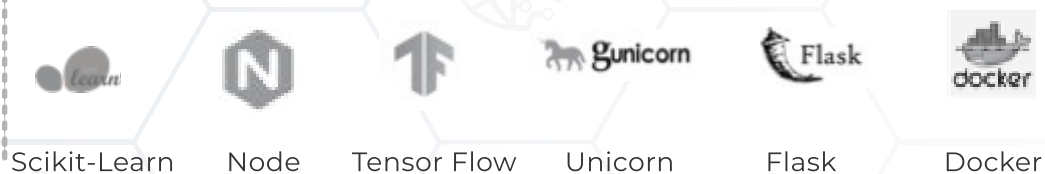


## ARTIFICIAL INTELLIGENCE: REAL-TIME FACE RECOGNITION MODEL FOR SECURE AND AUTOMATED MONITORING

### TECH STACKS:



### CLIENT:

To design a face recognition model that would efficiently determine age, gender, and identity of a person from any image or video source, by identifying unique characteristics of one's face. To also be able to detect emotions by categorizing externally expressed changes on the face.

### CHALLENGE:

Base architecture: RESNET50

Designed a lightweight face detection model to identify human faces on a live stream video from a mounted CCTV camera and pipelined the process of identifying not just the gender and age of the person but also his/her identity from the database. The model is also trained in real-time emotion recognition with an accuracy of about 72%.

### SOLUTION:

The model has multiple application including improved security and enhanced customer service experience. The model can help schools and offices detect unauthorized entries, apart from recording time and attendance for all. The customized solution can also help retailers to get the footfall of in-store customers and can reduce the time at the billing desk by implementing customer recognition feature, among other personalization features.