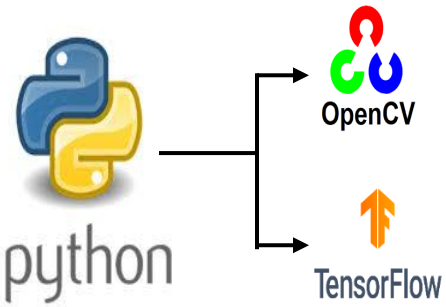
Algorithm for social distance robot

Components:

- Camera
- Bluetooth beacons
- Ibeacon

Codes:



Algorithm 1:

- Start
- Read the mac address of all the devices in that area using Bluetooth.
- Locate all the mac addresses that was read on the GPS.
- Calculate the distance between each mac addresses.
- If distance<=1.5m
- True → send alert to people to keep the distances while they communicate.
- False → back to step 2 (looping)
- End

Algorithm 2:

- Start
- image Processing by OpenCV → https://github.com/nabaajafar/Detect-Object
- The robot can teach itself the distance by TensorFlow Library →
  tensorflow-gpu>=1.15.2
  tqd
  mmatplotlib
  numpy>=1.16.4
  opencv-python>=3.2.0
  scipy>=1.2.1
  sklearn>=0.20.3
- send an alert if the distance illegal's
- End