**BOOTCV** : **A Smart Traffic Management Or Shaping System**

**Brief Idea :** At present the biggest problem people used to face especially in urban areas is the traffic. Traffic congestion is the condition caused by increasing vehicles on the road resulting in slower speed and loss of valuable time. Traffic jam leads to sheer wastage of productive time. We are coming up with the idea of reducing the time people used to wait at the traffic signals by detecting the volume of the traffic through image processing. On the basis of the volume of the traffic the time of the traffic light will be set automatically. Time of the lane with the least traffic will be reduced and the same will be added to the time of the lane with the huge traffic. This will definitely help us in reducing the time. We had also found a Solution for ambulance , fire brigade , or any emergency vehicle we can give them RF-TRANS, RF-RECIVER, with different of key based like for ambulance there is another key to identify them or any other minister vehicle there is another key so based on that so basically same system will manage the priority.

**Tech-Stack:**

**AT-IMPLEMENTATION\_HARDWARE**:

* Raspberry\_pi ,
* Wires ,
* Camera modules,
* RF-Tran,
* RF-Receiver,
* RxTx ,etc.

**AT-SOFTWARE\_IMPLEMENTATION :**

* OpenCV,
* Python,
* YOLO\_car\_detection ,
* SSD\_algorithem,
* Round\_robbin\_algo ,
* Machine\_learning-keras,tensarflow.
* Cloud for storing and fetching live data.