Traffic Video Analytics

|  |  |  |
| --- | --- | --- |
| Sr. No. | Analytics Features | Description |
| 1 | Incoming LTV Count | Count number of LTVs coming towards the camera |
| 2 | Outgoing LTV Count | Count number of LTVs going away from the camera |
| 3 | Incoming HTV Count | Count number of HTVs coming towards the camera |
| 4 | Outgoing HTV Count | Count number of HTVs going away from the camera |
| 5 | Incoming Flow Rate per Hour | Total vehicles coming towards the camera per hour |
| 6 | Outgoing Flow Rate per Hour | Total vehicles going away from the camera per hour |
| 7 | Incoming Traffic Density | Classifies the incoming traffic density into low, medium and high. |
| 8 | Outgoing Traffic Density | Classifies the outgoing traffic density into low, medium and high. |
| 9 | Lane Change Detection | Detect whenever any car changes its lane.  Problem: The current placement of camera is not appropriate as it creates many false alarms due to the fact that the vehicle is appearing/occupying two lanes. Also there is curve in the road that creates the image of a vehicle in 2 lanes.  Suggestion: The camera should be mounted in middle of three lanes. In this way the lanes can be distinguished and lane change event can be captured. Therefore there shall be two cameras covering incoming and outgoing traffic. |
|  |  | |
| 10 | Traffic Accident | Detect any traffic accident happening on the road |
| 11 | Night Traffic analysis | The video quality at night makes the vehicles identification near to impossible, causing many false counts. |
|  |  | |