**Traffic Management through Density Estimation**

1, 2, 3Vijeta Khare,

1Adani Institute of Infrastructure Engineering, Ahmedabad, India.

, [kharevijeta@gmail.com](mailto:kharevijeta@gmail.com)

**Abstract**

Start with brief introduction and then write whole methodology in short and obtained results.

We aimed to solve the real-world traffic lights problem by obtaining maximum optimization ever possible. Looking towards the world, we can see the huge amount of traffic everywhere. And this is going to increase soon with time. That’s why it is the utmost requirement to solve this issue on highest priority. We have solved this issue with the help of python. We take real time data from camera, apply algorithms, prioritize the lights, and show the output which decreases the intensity of traffic. The output is totally based on the input received at that time.

1. **Introduction**

Display sample images of datasets with that explain the problem. Write some description about each problem.

1. **Related Work**

Write work done in this field with references.

1. Ghazal

They have used microcontroller for the optimization of the traffic lights. They decide the light on real time basis by detecting from IR sensor placed on both the sides of road. But the problem is what if 2 or more than 2 cars pass at the same time from the radiation? It will be counted as 1 only. Hence it is not feasible. Moreover, for emergency vehicles, there is push button for the officer. This engages a person. In our model there is no need to monitor anything.

1. **The Proposed Methodology**

Write one block diagram which should include all the steps of the proposed method. Write short description for each steps or block. Discuss all the features in detail below:

* 1. **Feature 1**

Write all the steps of the preprocessing step that you have implemented. Display some sample results for each class. Add some equations for algorithmic steps. (Same for all features)

* 1. **Feature 2:**
  2. **Proposed architecture/ model**

Write in details about learning, training and CNN architecture. Mention reference here. Write some equations for loss function and other details.

1. **Experimental Results**

Write nature, size and complexity of the dataset. Write about the measures, definition and equations. Write about existing systems and methods that you have implemented for r comparative study.

* 1. **Experiments on Individual features**

For these experiments, write result when single feature will be used. Sample results and Table. And explain why individual feature wont work /or issues. (This will justify the reason of combined features)

* 1. **Experiment on combined features**

Sample results of the proposed and existing methods. Sample results(images) and Table.

Some failure cases of the proposed method. Write the reason for poor results.

1. **Conclusion and Future Work**

I will edit this part.

**References**

Write all the references that you have referred in the text. Please follow particular format for writing references. Try for APA format.