

Result Documentation

Visual communication for traffic sign detection

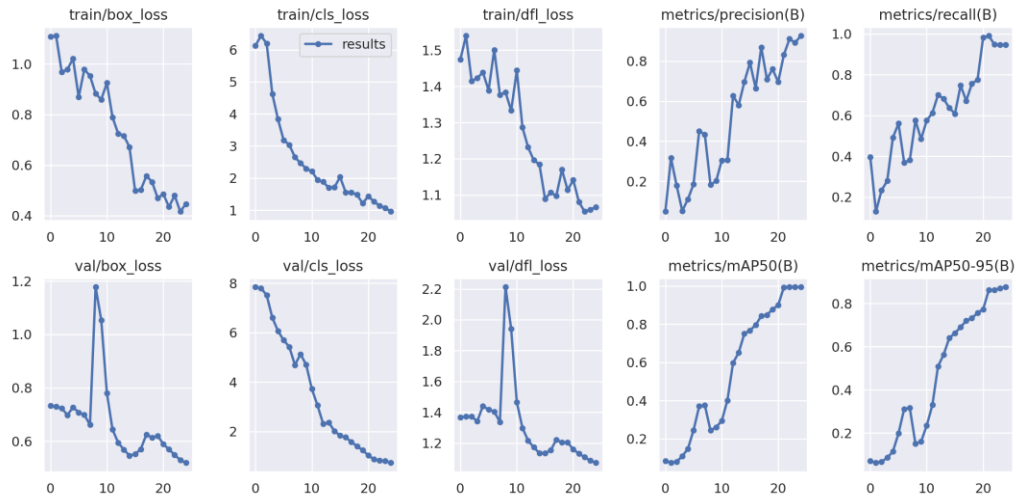
Objectives of the project:

1. To develop a YOLOv8-based model for traffic sign detection. This model should be able to detect and classify traffic signs simultaneously, and its performance should be comparable to or better than other contemporary approaches such as R-CNNs and fast R-CNNs.
2. To achieve real-time performance. The model should be able to detect and classify traffic signs in real time, which is necessary for applications such as autonomous driving.
3. To be robust to variations in lighting, weather, and occlusion. The model should be able to detect and classify traffic signs in a variety of conditions, including different lighting conditions, weather conditions, and occlusions.
4. To be able to detect a wide variety of traffic signs. The model should be able to detect a wide variety of traffic signs, including different types of signs, such as stop signs and speed limit signs.

The results of this project will be valuable for the development of autonomous driving systems and other applications that require traffic sign detection.

Results of the project:

In this project visual communication for traffic sign detection the result can be showed as the label name at the picture which is given as input from the trained dataset.





It gives the label name of the signs which we trained from the dataset. This display the names for the different traffic signs in India mainly mandatory, prohibited and danger signs.