



# TRAFFIC SIGN CLASSIFICATION USING CNN



# Introduction

***Traffic Sign Classification***  
*is a critical component of autonomous driving. In this presentation, we'll explore the importance of traffic sign classification and the deep learning techniques used to achieve accurate results.*

# What are Traffic Signs?

*Traffic Signs are visual aids that convey vital information to drivers. They provide information about speed limits, traffic flow, road conditions, and hazards. Traffic signs are essential for safe driving, and accurate classification is crucial for autonomous vehicles.*







# Deep Learning Techniques

**Deep Learning** techniques are used to classify traffic signs. Convolutional Neural Networks (CNNs) are the most popular deep learning technique used for traffic sign classification. CNNs are trained on large datasets of labeled images to learn the features needed to accurately classify traffic signs.



# Dataset Preparation

*The success of traffic sign classification depends on the availability of a high-quality dataset. A good dataset should be large, diverse, and accurately labeled. The most commonly used datasets for traffic sign classification are the German Traffic Sign Recognition Benchmark (GTSRB) and the LISA Traffic Sign Dataset. But I prefer Indian traffic dataset. This data is trained by more than 5000 images.*



**Thanks!**

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