**Introduction to the Traffic Sign Recognition Dataset**

This dataset contains images of traffic signs used for training and testing traffic sign recognition models. The images represent six distinct classes:

1. **Warning signs** (e.g., triangular caution signs)

A triangular sign with a logo on it

Description automatically generated

1. **Priority road signs** (e.g., yellow diamond signs indicating right of way)

A close-up of a sign

Description automatically generated

1. **Speed limit signs** (e.g., circular signs with numerical speed limits)

A close-up of a speed limit sign

Description automatically generated

1. **Bike-related signs** (e.g., bicycle paths or restrictions)

A blue sign with a picture of a bicycle

Description automatically generated

1. **No parking/No stopping signs** (e.g., circular signs with red borders and diagonal lines)

A sign with a cross on it

Description automatically generated

1. **No passing signs** (e.g., restrictions on overtaking vehicles).

A red sign with white line

Description automatically generated

The images in this dataset are unprocessed and vary in size, reflecting real-world conditions for more robust model training and testing. Each class includes a representative traffic sign to facilitate recognition tasks.

**Preprocessing the Images**  
To prepare the dataset for model training, the images are resized to a fixed dimension of **28 x 28 pixels** with **3 color channels (RGB)**. This ensures uniformity across the dataset, making it suitable for input into the model.