

**Traffic Sign Recognition**

Faculty of Computers & Artificial Intelligence

Selected 1

Repository Link: <https://github.com/mahmoudhaney/TrafficSignRecognition>

**Team 15**

|  |  |  |  |  |
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**Dataset Information**

Name

**Traffic Sign Recognition**

**Total Dataset 39209**

**Training Data 31367**

**Validation Data 7842**

Loss Curve

A picture containing chart

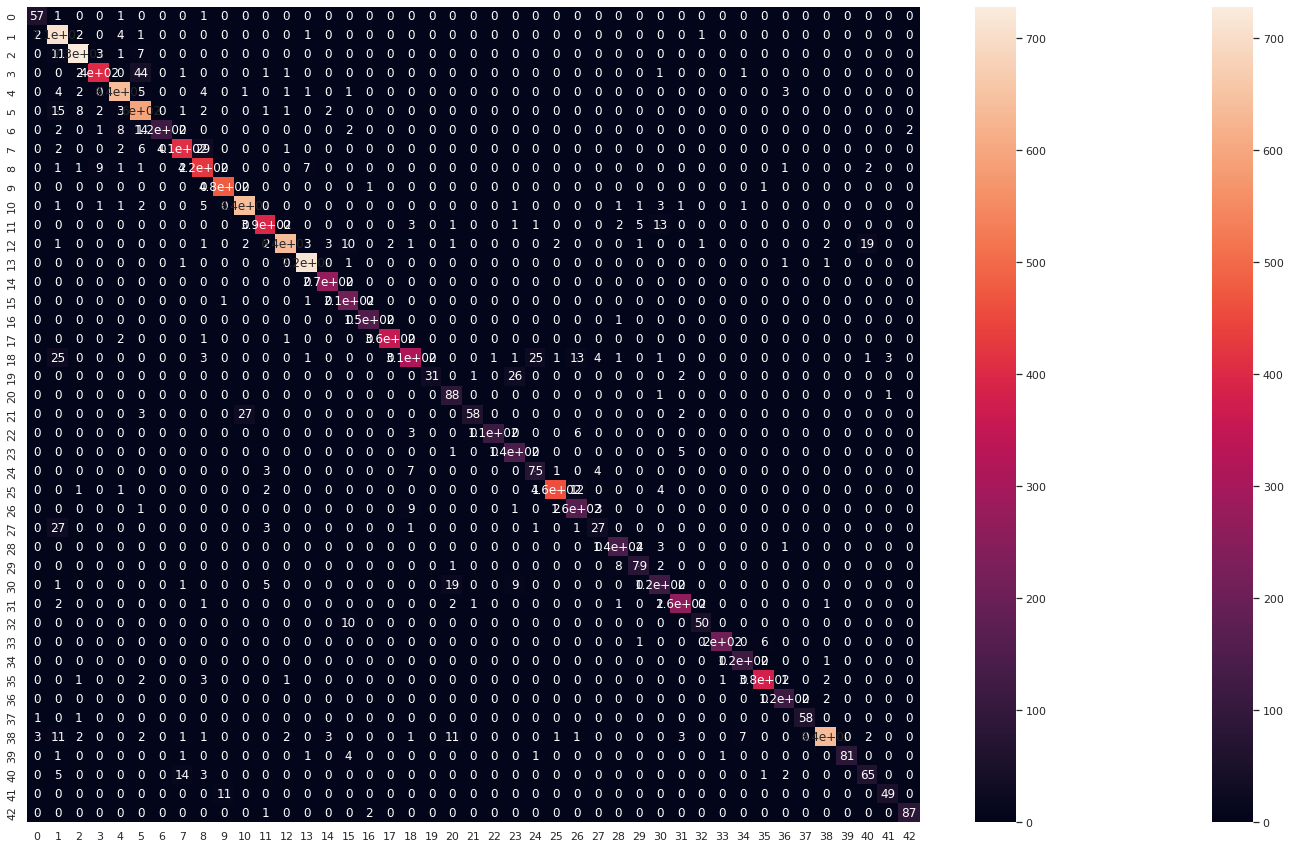
Description automatically generated

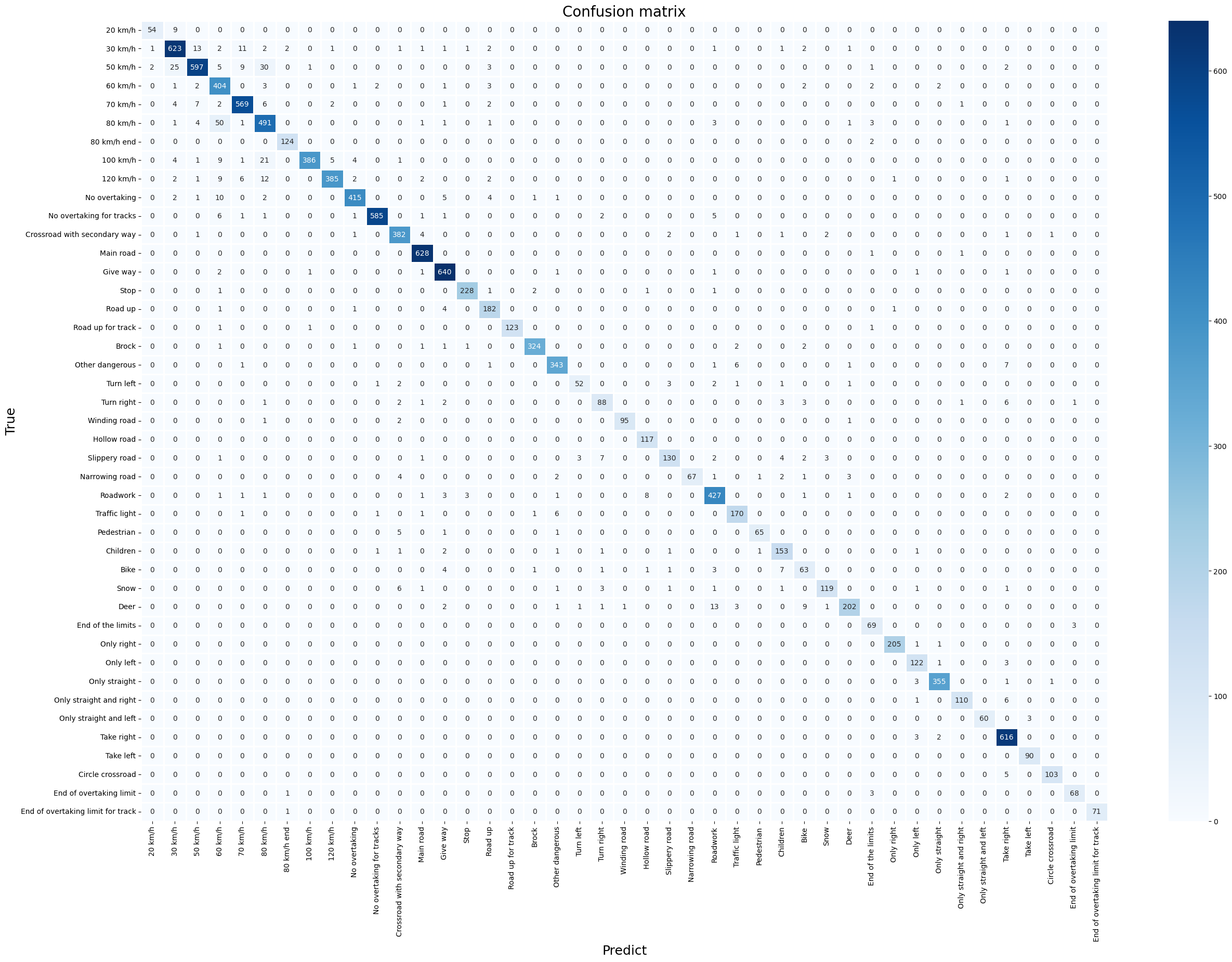
Accuracy Curve

A picture containing graphical user interface

Description automatically generated

Confusion Matrix





**Hyperparameters**

Resize Image 32 \* 32

Num of Epochs 30 epochs – For NN

Learning Rate 0.25 --> 0.5 – For NN

Before

**Accuracy for SVM Model: 93%**

Training Data: 70%

Image Size: 40 \* 40

After

**Accuracy for SVM Model: 99%**

Training Data: 80%

Image Size: 32 \* 32