



Traffic Sign Recognition

Faculty of Computers & Artificial Intelligence

Selected 1

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

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Dataset Information

Name

Traffic Sign Recognition

Total Dataset



39209

Training Data

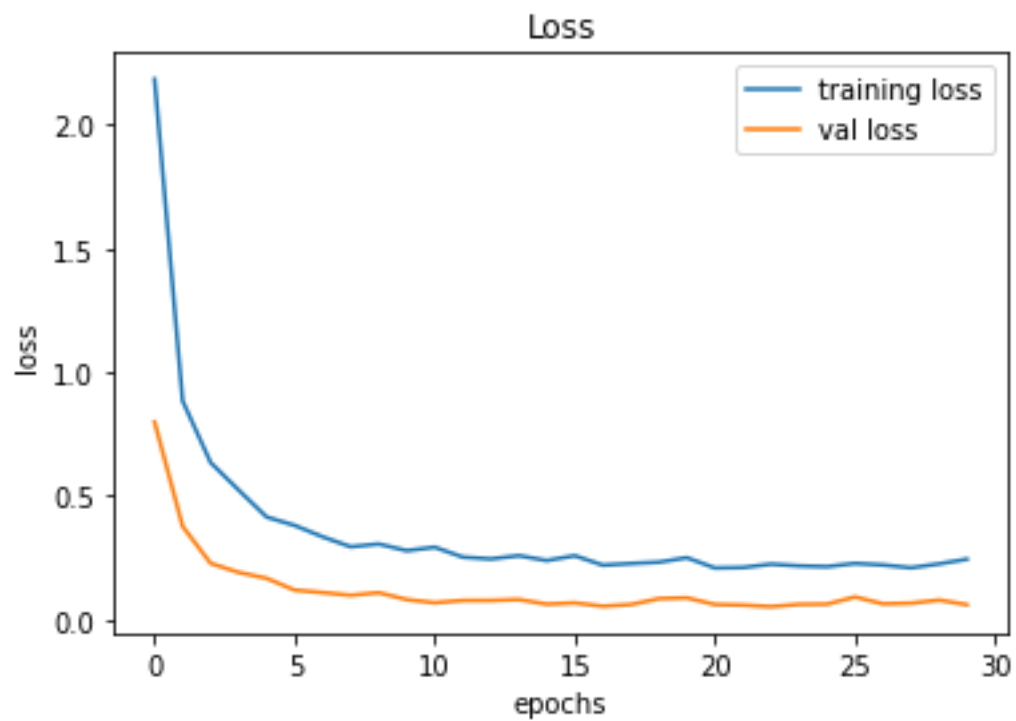


31367

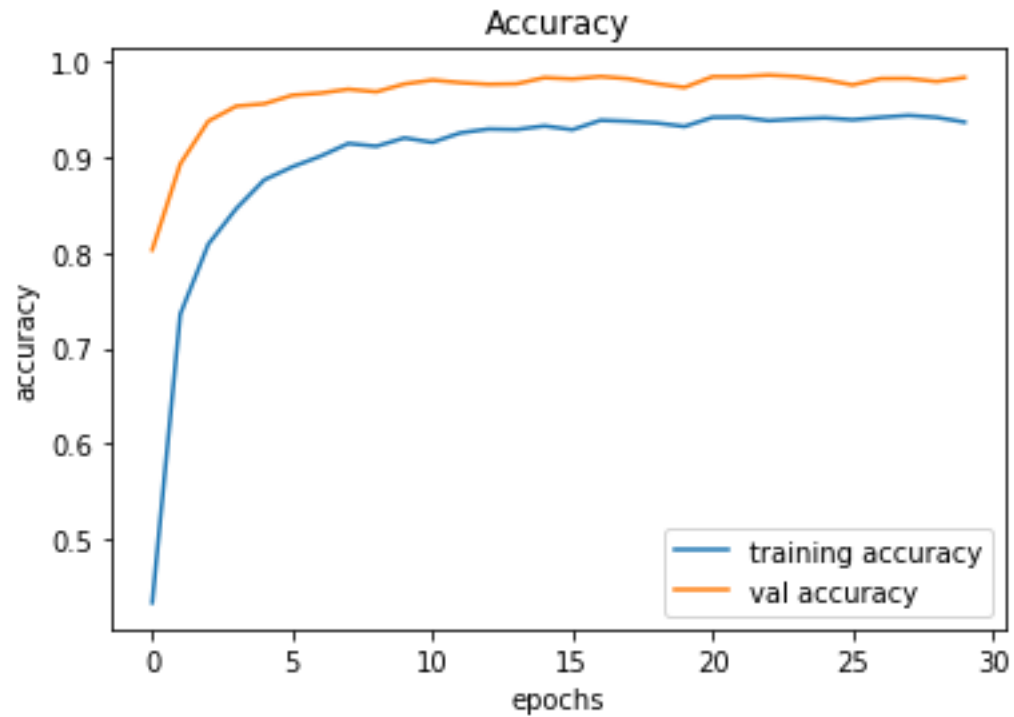
Validation Data



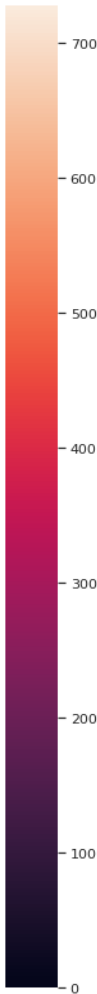
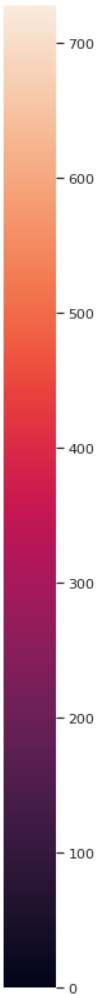
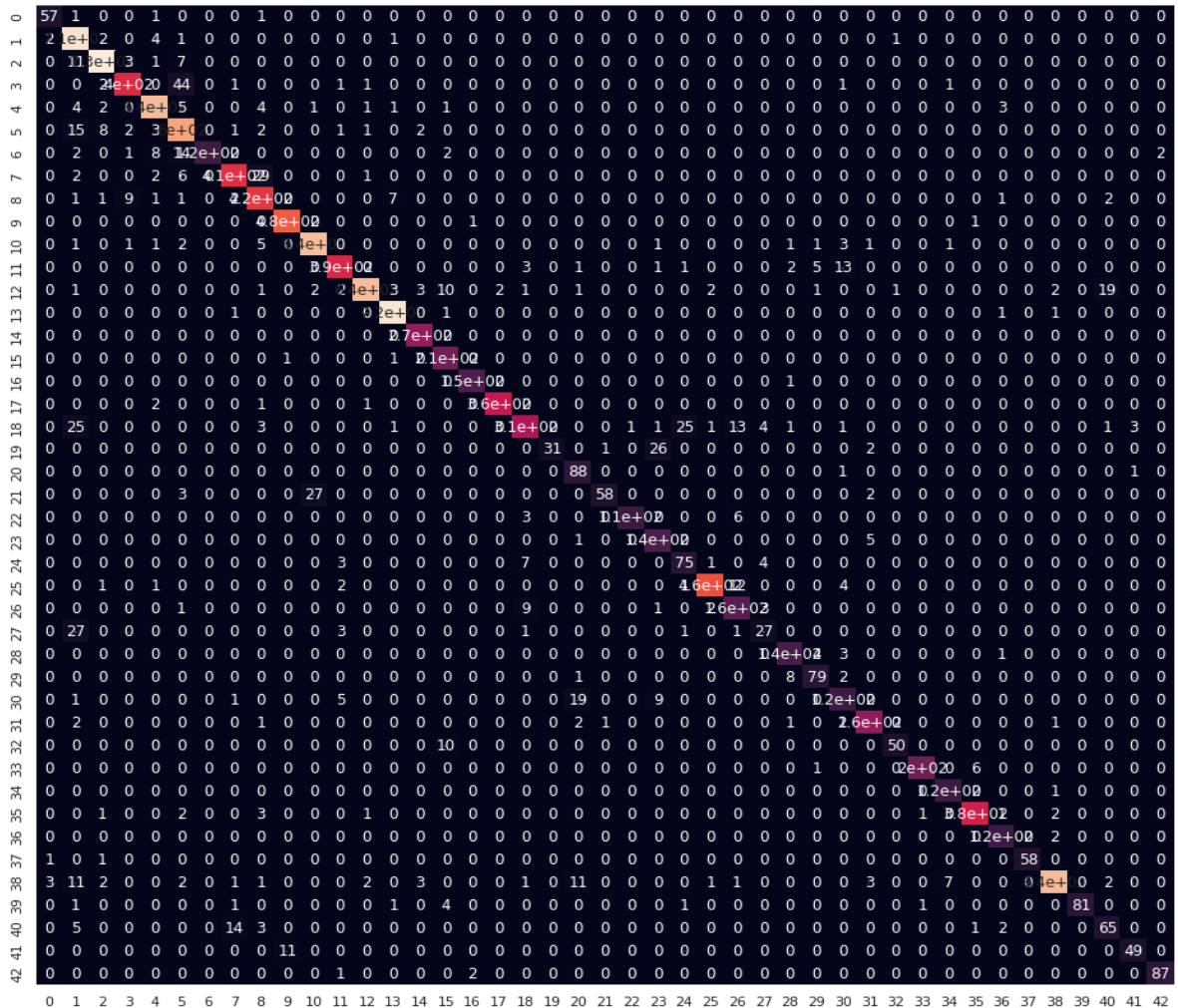
7842



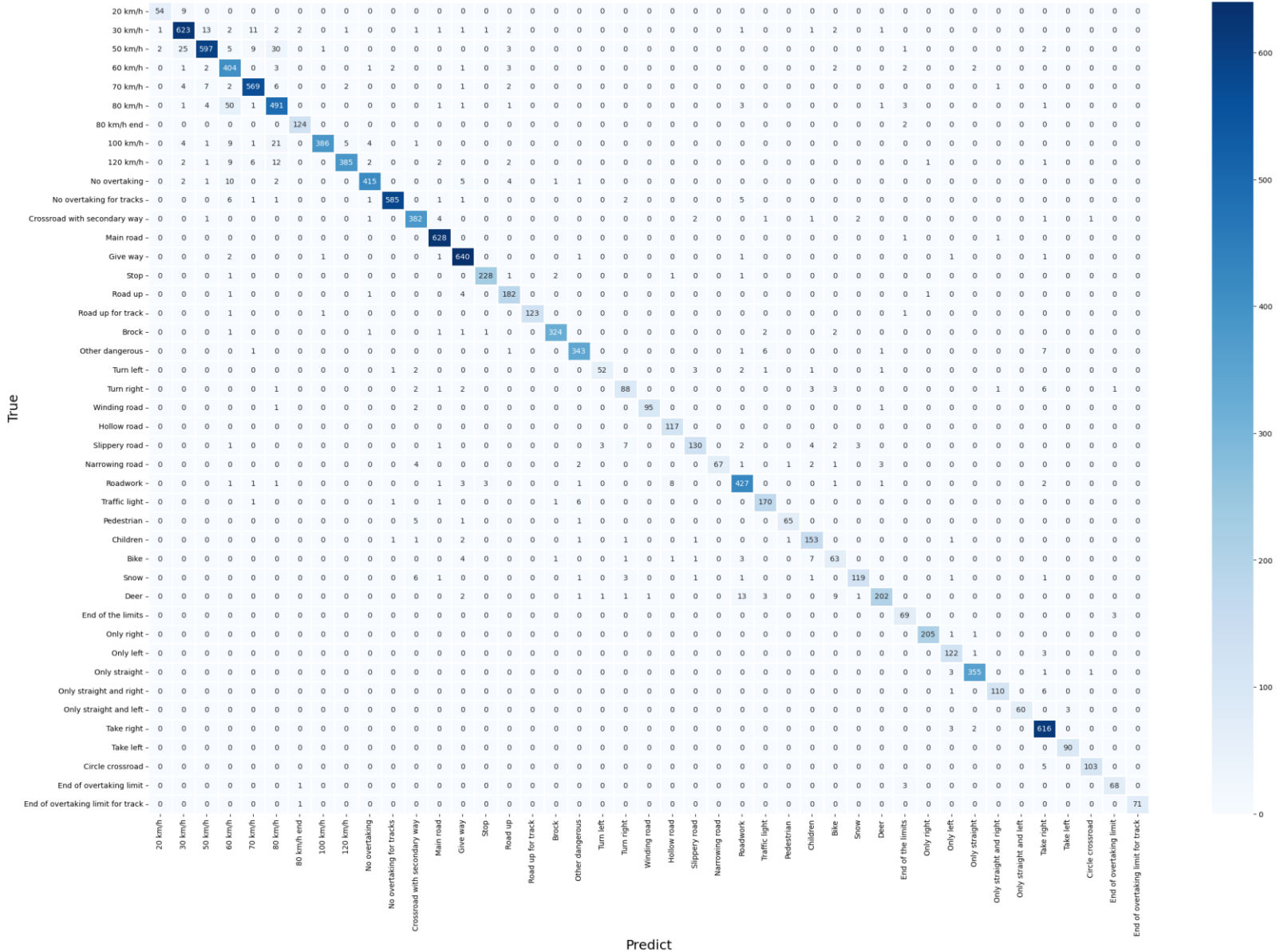
Accuracy Curve



Confusion Matrix



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