

# **Traffic Sign Recognition**

Faculty of Computers & Artificial Intelligence

Selected 1

Repository Link: <a href="https://github.com/mahmoudhaney/TrafficSignRecognition">https://github.com/mahmoudhaney/TrafficSignRecognition</a>

# Team 15

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## **Dataset Information**



# **Traffic Sign Recognition**

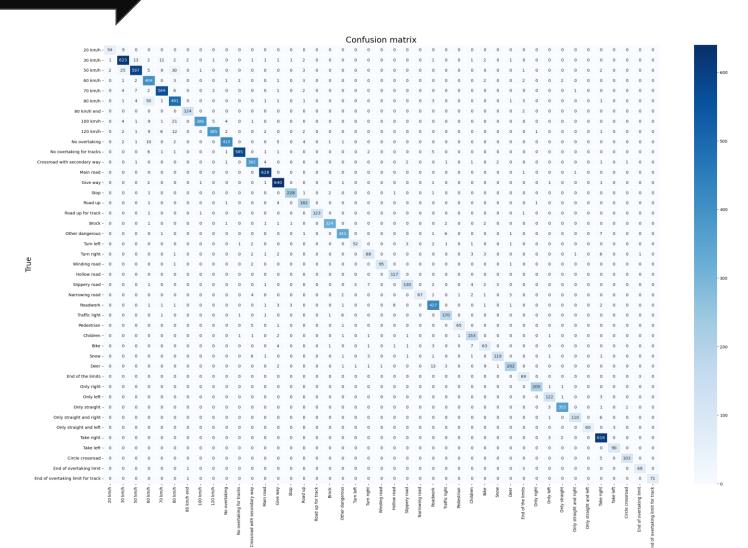


Training Data 31367

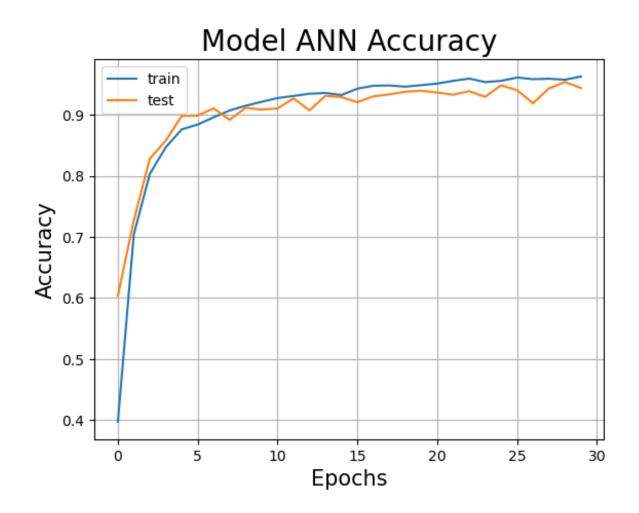
Validation Data 7842

#### **ANN Model**

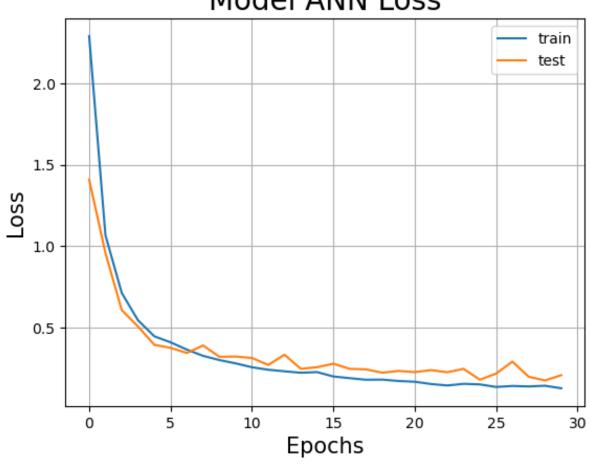
#### **Confusion Matrix**



Predict

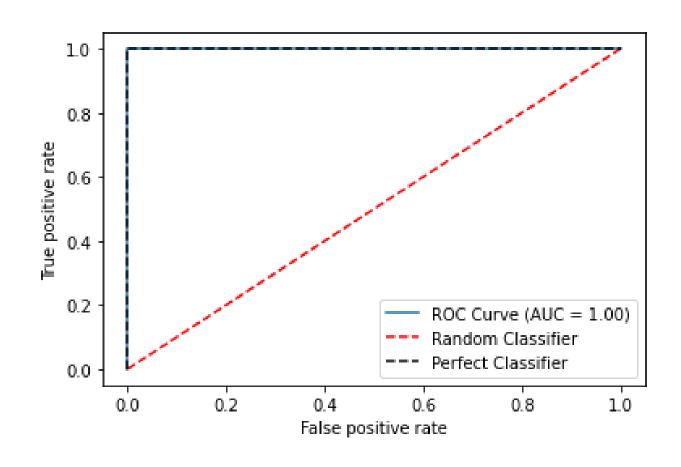


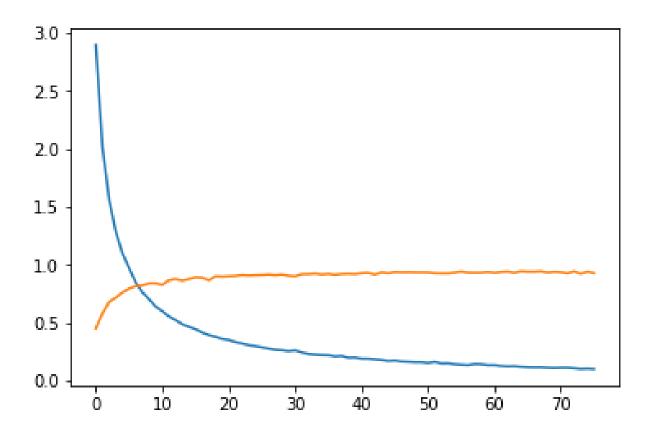
# Model ANN Loss



# **SVM Model**

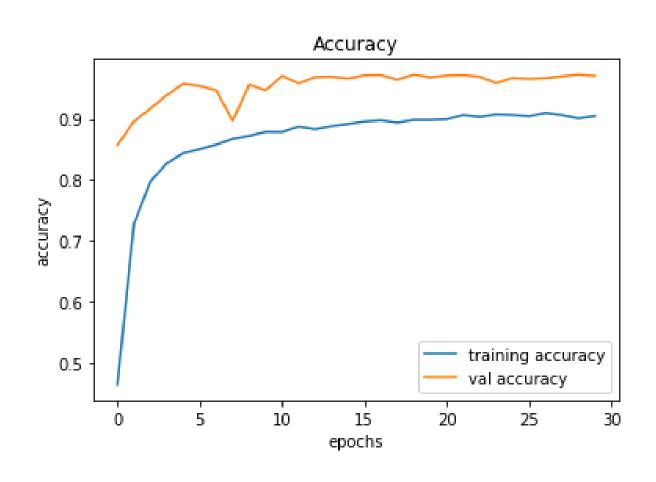


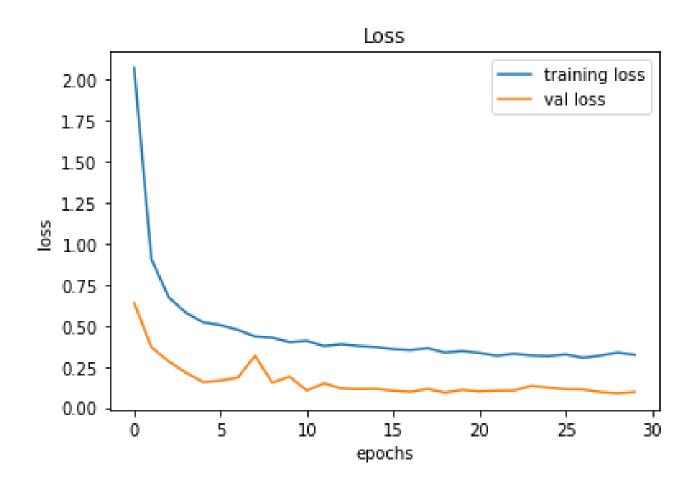




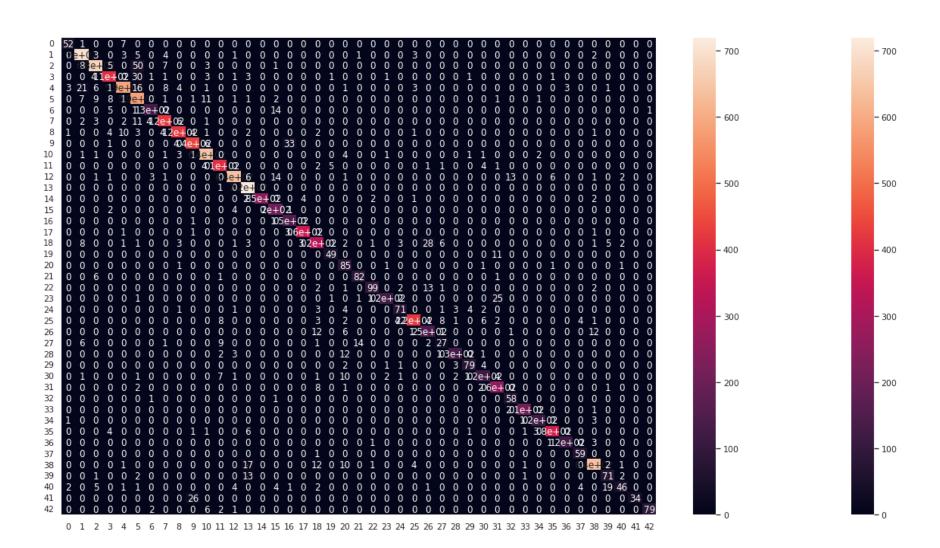
# **Another NN Model**

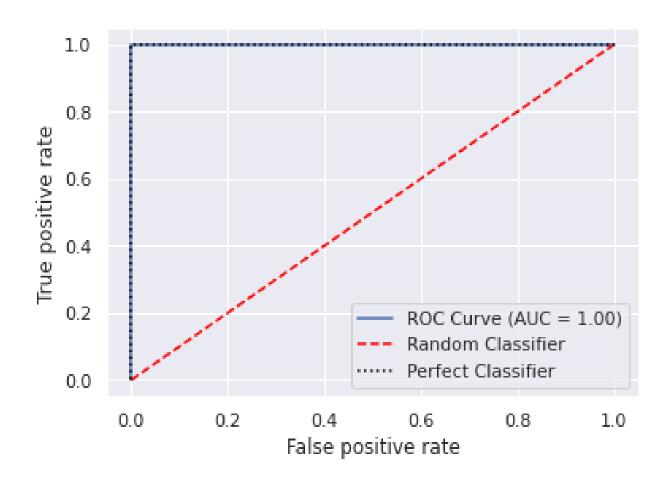
Accuracy Curve





#### **Confusion Matrix**





## **Hyperparameters**

#### **For ANN Model**

Resize Image: 32 \* 32

Num of Epochs: 30 epochs

Learning Rate: 0.25 - 0.5

Activation Fun: Relu & Sigmoid

Optimizer: Adam

#### For SVM Model

Resize Image: 32 \* 32

SVC Kernel: Linear