PANTECH SOLUTIONS®
Technology Beyond the Dreams

AI Master Class series – Day 21

Road Sign Recognition

Day-21 Agenda.

01.

Road Sign Recognition

Road sign recognition & Application

02.

DL Syntax

Accuracy & Loss Plot

03.

Deployment

Road sign recognition

04.

Q & A

Road Sign Recognition.

- Traffic-sign recognition (TSR) is a technology by which a vehicle is able to recognize the traffic signs put on the road e.g. "speed limit" or "children" or "turn ahead".
- This is part of the features collectively called ADAS. The technology is being developed by a variety of automotive suppliers.

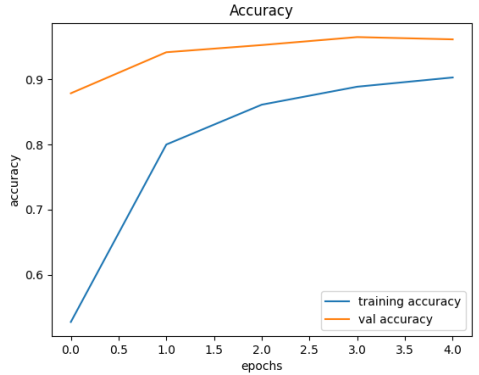
Dataset - **GTSRB – German Traffic Sign Recognition Benchmark**

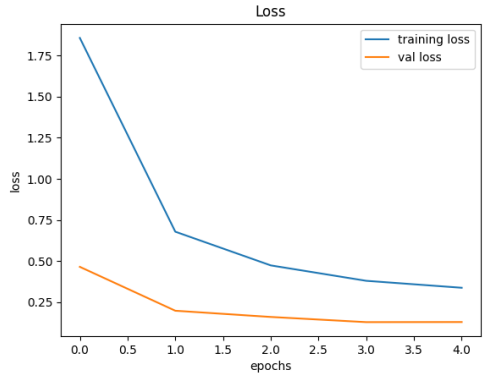
Display Accuracy & Loss Chart.

```
history = model.fit(X_train, y_train, batch_size=32, epochs=5,
validation_data=(X_test, y_test))

    plt.figure(0)
    plt.plot(history.history['accuracy'], label='training accuracy')
    plt.plot(history.history['val_accuracy'], label='val accuracy')
    plt.title('Accuracy')
    plt.xlabel('epochs')
    plt.ylabel('accuracy')
    plt.legend()
    plt.savefig('Accuracy.png')

    plt.figure(1)
    plt.plot(history.history['loss'], label='training loss')
    plt.plot(history.history['val_loss'], label='val loss')
    plt.title('Loss')
    plt.xlabel('epochs')
    plt.ylabel('loss')
    plt.legend()
    plt.savefig('Loss.png')
    self.textEdit.setText("Saved Model & Graph to disk")
```





! PRACTICAL SESSION !

Road Sign Recognition

Thanks!

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Tomorrow session

Introduction to Machine Learning