LAB Logbook

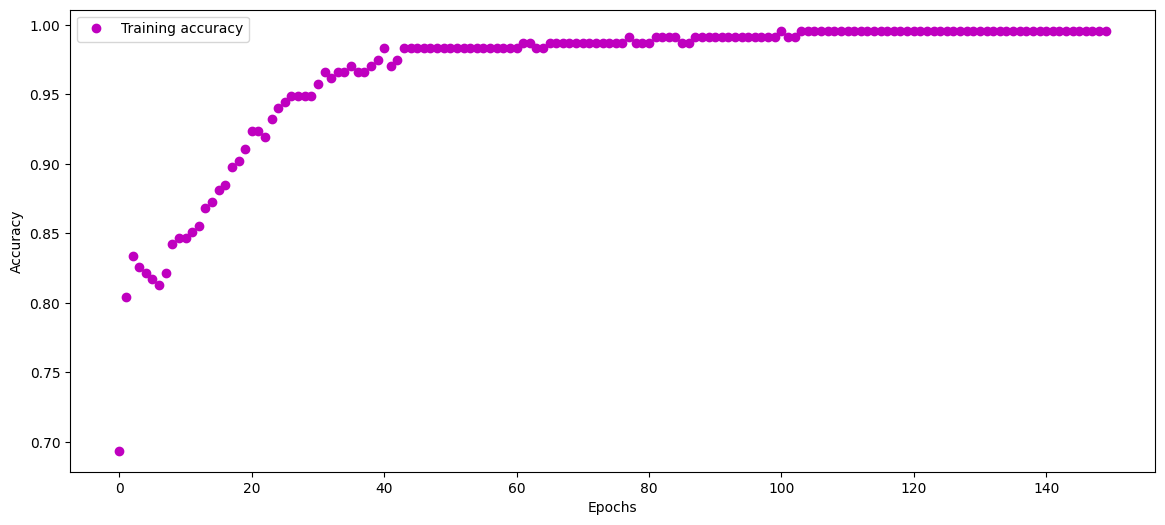
Lab 1

A green line with blue dots

Description automatically generated

Lab 2

Accuracy: “0.931”



A screenshot of a computer

Description automatically generated

Lab 3

Accuracy: “0.861”

A screenshot of a computer

Description automatically generated

Lab 4

A screenshot of a computer

Description automatically generated

A graph with a red line

Description automatically generated

absolute prediction error = 57585.0 $

relative prediction error = 25.950878774222623 %

Lab 5

A screenshot of a computer

AI-generated content may be incorrect.

A graph with blue dots

AI-generated content may be incorrect.

Number of Epochs = 10

Minimum Validation loss = ‘0.9425’

A screenshot of a computer

AI-generated content may be incorrect.

Lab 6

A screenshot of a computer

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A black and purple text

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A white background with black text

AI-generated content may be incorrect.

A screenshot of a computer

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A line graph with blue dots

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Minimum\_Validation\_Loss – ‘0.0012’

Epoch – ‘12’

Lab 7

VGG16

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Epoch – ‘40’

VGG19

A graph of a line

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Final performance Table VGG16

A table of numbers with text

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Final performance Table VGG19

A screenshot of a computer code

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performance comparing histogram of VGG16 and VGG19

A graph with different colored squares

AI-generated content may be incorrect.

Lab 8

LSTM architecture:

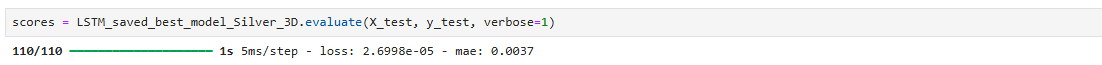
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Code training and result:

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MSE & MAE



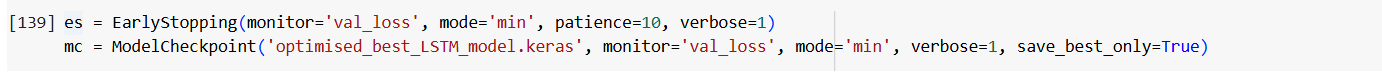
Detailed MAE Graph:

A graph with blue lines and green text

AI-generated content may be incorrect.

Lab 9

EarlyStopping() and ModelCheckpoint() functions



code and training result using model.fit()

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AI-generated content may be incorrect.

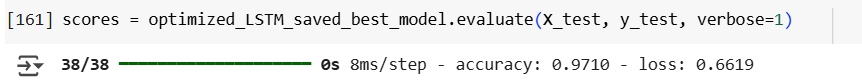
A screenshot of a computer

AI-generated content may be incorrect.

A white paper with black text

AI-generated content may be incorrect.

Test Accuracy and Error metrics



A screenshot of a computer

AI-generated content may be incorrect.

Accuracy detailed graph

A graph with blue and green lines

AI-generated content may be incorrect.

Lab 10

Simple autoencoder

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A screenshot of a computer

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CNN autoencoder

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AI-generated content may be incorrect.

A graph with blue dots

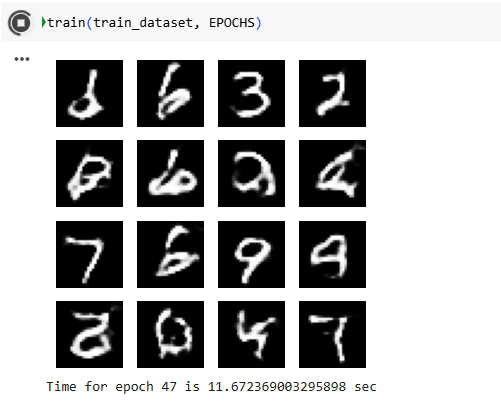
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Task 2 accuracy

A white sheet with red dots

AI-generated content may be incorrect.

Lab 11



Lab 12