LAB Logbook

Lab 1

A graph of a line

Description automatically generated with medium confidence

Lab 2

Accuracy = 0.915

A screenshot of a computer

Description automatically generated

A blue line graph on a white background

Description automatically generated

Task 2

O1 = O2 = 0.819

Lab 3

Accuracy = 0.8856

A table with numbers and text

AI-generated content may be incorrect.

A graph with blue dots

AI-generated content may be incorrect.

Lab 4

A screenshot of a computer

AI-generated content may be incorrect.

A graph with a line graph

AI-generated content may be incorrect.

Lab 5

A screenshot of a computer code

AI-generated content may be incorrect.

A graph with a line

AI-generated content may be incorrect.

Optimal Number of Epochs = 4

Lab 6

A screenshot of a computer

AI-generated content may be incorrect.

A computer screen shot of a monitor

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

A screen shot of a computer

AI-generated content may be incorrect.

A graph with blue lines

AI-generated content may be incorrect.

Optimal Number of of Epochs = 9

Lab 7

VGG16 Model Performance

A graph of a graph of a graph

AI-generated content may be incorrect.

Optimal Number of Epochs = 39

VGG19 Model Performance

A graph of a graph of a graph

AI-generated content may be incorrect.

Final Performance Table

A screenshot of a graph

AI-generated content may be incorrect.

Histogram of VGG16 and VGG19

A graph of different colored squares

AI-generated content may be incorrect.

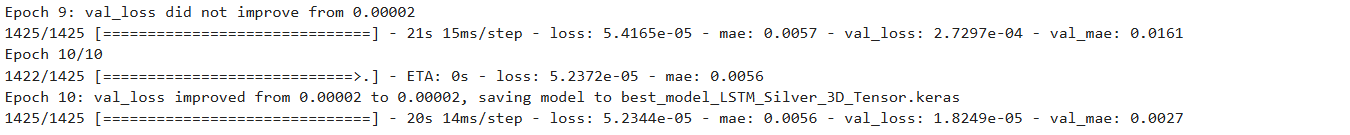
Lab 8

A white paper with black text

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.



A graph with red dots and blue lines

AI-generated content may be incorrect.

A graph with a line and a point

AI-generated content may be incorrect.

A graph showing a line of a graph

AI-generated content may be incorrect.

Lab 9



A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer

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.

A graph with a line going up

AI-generated content may be incorrect.

A number of numbers in a row

AI-generated content may be incorrect.

Error Metrics

A graph of a training and validation accuracy

AI-generated content may be incorrect.

Lab 10

**Task -1**

**A screenshot of a computer

AI-generated content may be incorrect.**

Encoder summary

A screenshot of a computer

AI-generated content may be incorrect.

Decoder Summary

A screenshot of a computer

AI-generated content may be incorrect.

Autoencoder Summary

**Task-2**

A screenshot of a computer

AI-generated content may be incorrect.

Autoencoder summary

A computer screen shot of a program

AI-generated content may be incorrect.

Autoencoder.fit() code

A graph showing the number of epochromic indicators

AI-generated content may be incorrect.

Detailed Accuracy Graph

A screenshot of a computer screen

AI-generated content may be incorrect.

Lab 11

Lab 12