**Anglia Ruskin University**

**MSc Computer Science**

**MACHINE LEARNING IN FINANCE**

2024 MOD009701 TRI1 F01CAM

ELEMENT 011 – PART 2

***Lab Logbook***

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***Date:*** *13th December 2024* ***Word Count:*** *N/A*

Table of Contents

[Lab 1 2](#_Toc184859465)

[Lab 2 3](#_Toc184859466)

[Lab 3 4](#_Toc184859467)

[Lab 4 5](#_Toc184859468)

[Lab 5 6](#_Toc184859469)

[Lab 6 7](#_Toc184859470)

[Lab 7 8](#_Toc184859471)

[Lab 8 9](#_Toc184859472)

[Mock Test Week 9](#_Toc184859473)

[Lab 9 10](#_Toc184859474)

[Week of In Class Test 10](#_Toc184859475)

[Lab 10 11](#_Toc184859476)

[Note regarding issue with graphs 11](#_Toc184859477)

[Precision 12](#_Toc184859478)

[Accuracy 13](#_Toc184859479)

[Lab 11 14](#_Toc184859480)

[Lab 12 15](#_Toc184859481)

[Final Week - No Logbook Task 15](#_Toc184859482)

# Lab 1

Link to Git Hub:

# A screenshot of a computer Description automatically generatedLab 1



# A screenshot of a chat Description automatically generatedLab 2

# Lab 3

A screen shot of a computer

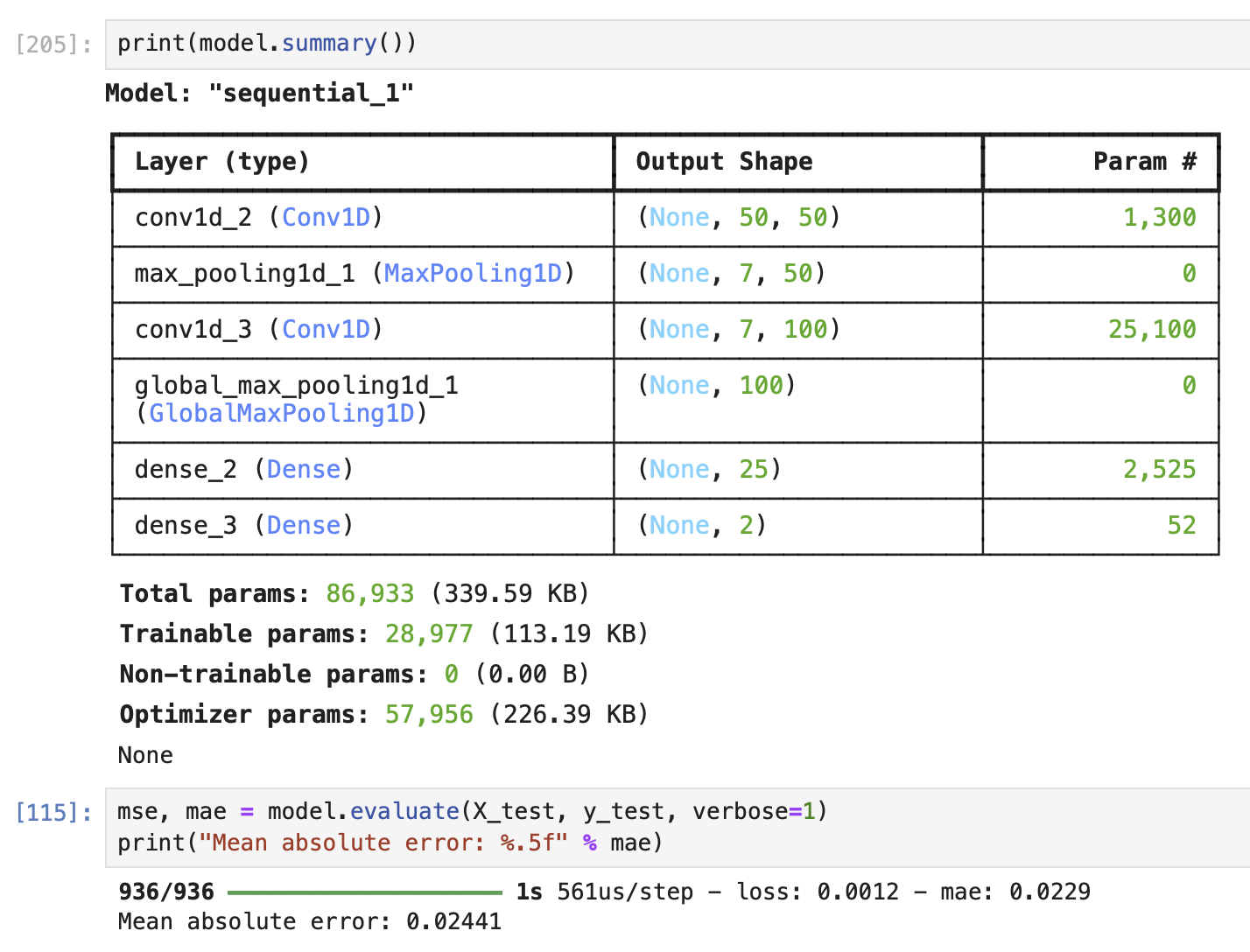
Description automatically generated

# Lab 4

A screenshot of a computer

Description automatically generated

# Lab 5



# Lab 6

A screen shot of a graph

Description automatically generated

# Lab 7

A screenshot of a computer

Description automatically generatedA screenshot of a computer

Description automatically generatedA graph with a line and a line

Description automatically generated

# Lab 8

## Mock Test Week

MLP

A line graph with blue dots

Description automatically generated

CNN

A graph with blue lines and dots

Description automatically generated

LSTM

A line graph with blue dots

Description automatically generated

# Lab 9

## Week of In Class Test

A graph with red and green lines

Description automatically generated

A screenshot of a computer

Description automatically generatedA graph with blue lines

Description automatically generated

# Lab 10

## Note regarding issue with graphs

Despite my best efforts and everything in the code aligning perfectly with the code provided, I still get these appalling graphs, and I can’t work out why I cannot improve them. The model is exactly the one provided, but always produces the same extremely high val\_loss score.

I have tried to starting again from scratch, but I got exactly the same results. I hope the fact that I understand what code to use, etc will mitigate the graphs somewhat.

Below is the training history screenshot for reference.A screenshot of a computer

Description automatically generated

## Precision

A graph with lines and numbers

Description automatically generated

A screen shot of a graph

Description automatically generated

## Accuracy

A graph with lines and text

Description automatically generated

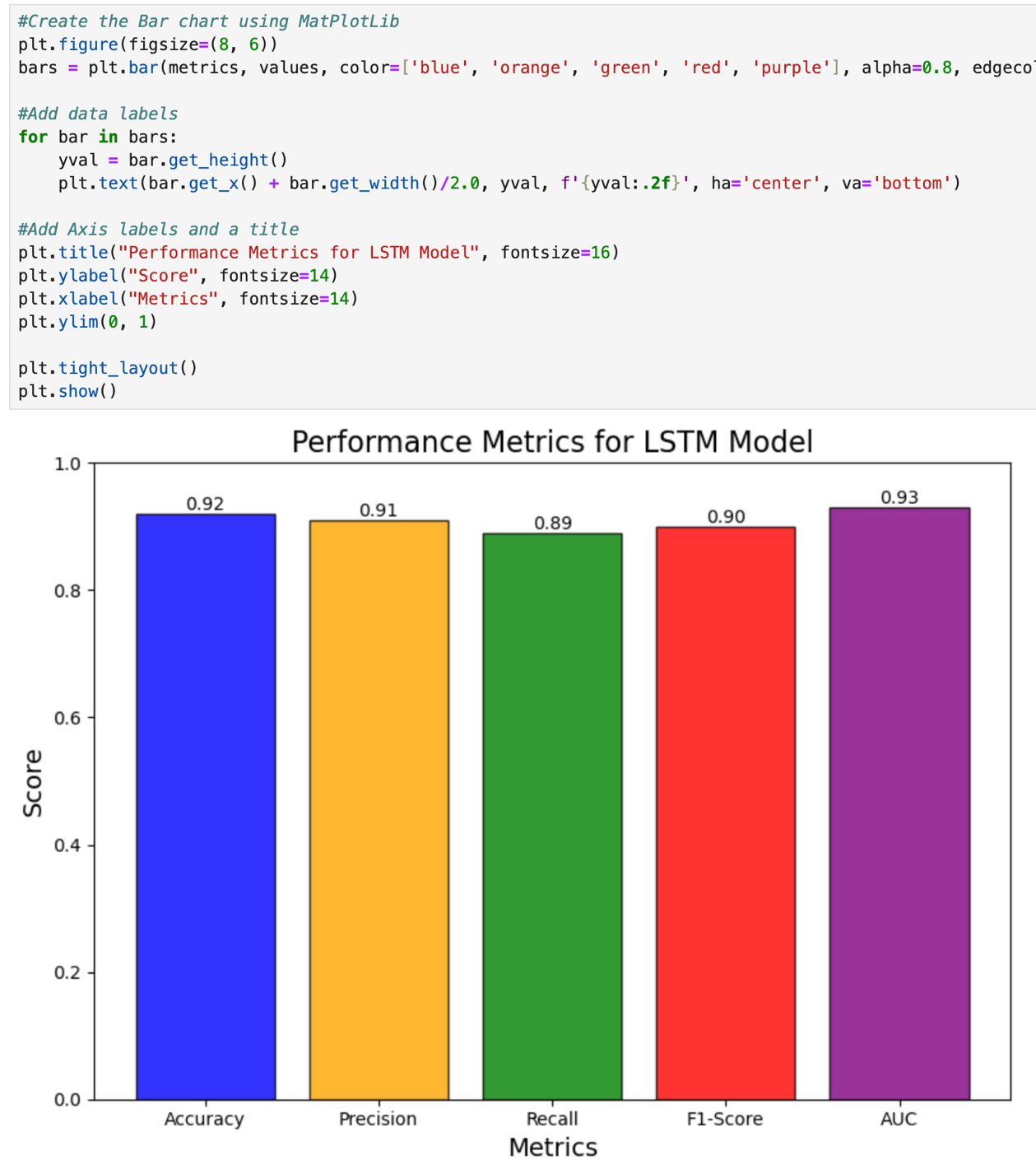
A screen shot of a graph

Description automatically generated

# Lab 11

A screenshot of a computer

Description automatically generated



# Lab 12

## Final Week - No Logbook Task