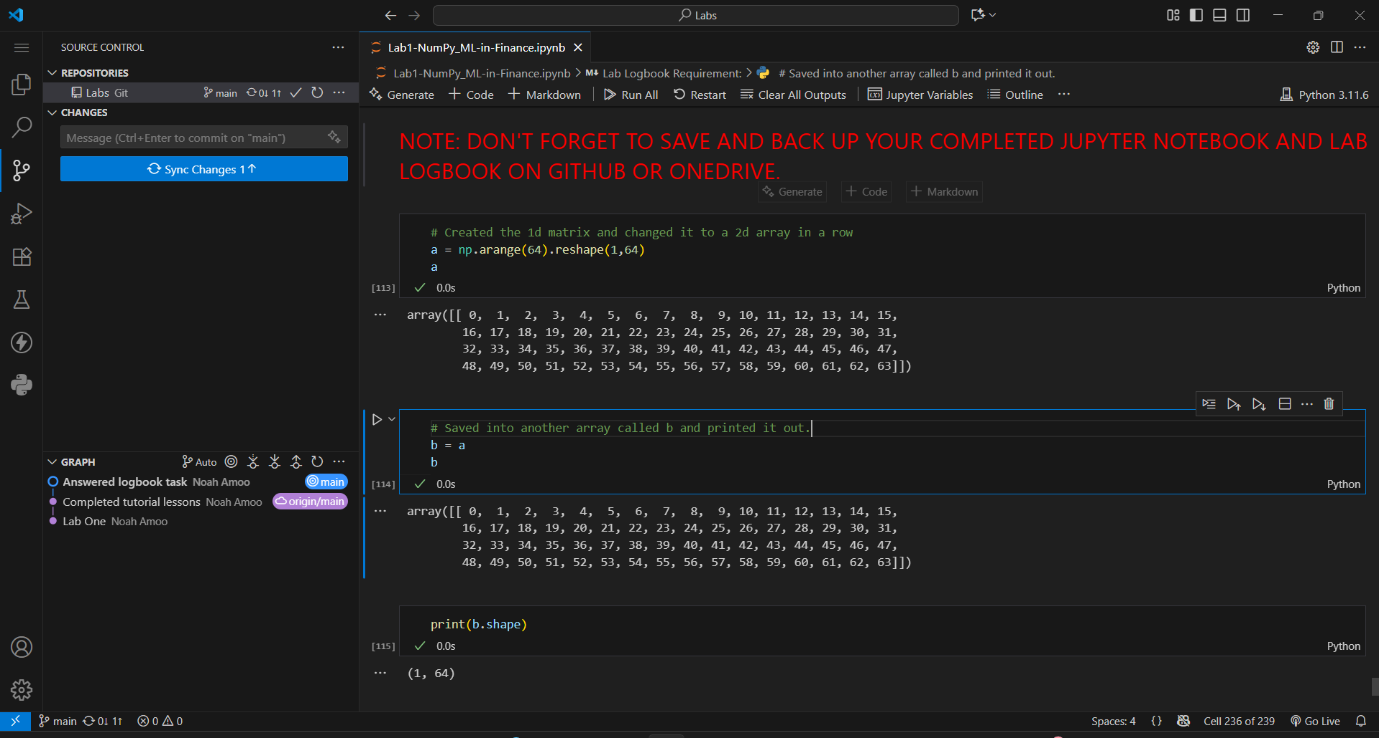
LAB Logbook

Lab 1



Lab 2

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

Lab 3

# My SID is 1554064. 6 corresponds to “Total night calls” and 4 to “Total evening calls”.   
fig = plt.figure(figsize=(9, 6))

plt.scatter(data['Total night calls'], data['Total eve calls'], color = Clr)

plt.xlabel('Evening calls')

plt.ylabel('Night calls')

A blue and orange dots

AI-generated content may be incorrect.

Lab 4

My SID is 1554064. Therefore the last three digits are 064 = 64

A screenshot of a computer screen

AI-generated content may be incorrect.

MLP codes which were compiled and executed

A screenshot of a computer program

AI-generated content may be incorrect.

Training iterations over 10 epochs

A close up of a text

AI-generated content may be incorrect.

Resulting MAE graph on the test dataset

A line graph with blue dots

AI-generated content may be incorrect.

Comparison

My MAE graph (image above) made a poor prediction with the model’s accuracy around 93% compared to the practical session’s (image below) which yielded about 99% accuracy. The poor performance of mine can be attributed to reasons such as having only two layers in the MLP with just 64 neurons in the first and 32 in the second. These fewer layers and neurons may have caused underfitting, thus not allowing the model to capture and learn important details in the training process. Also, fewer epochs of 10 could contribute to the model’s underperformance because the losses during backpropagation were not sufficiently minimized.

A graph with blue and orange lines

AI-generated content may be incorrect.

A graph showing a line of blue and orange lines

AI-generated content may be incorrect.

Lab 5

Lab 6

Lab 7

Lab 8

Lab 9

Lab 10

Lab 11

Lab 12