LAB Logbook

Lab 1

A graph with red dots and a blue line

Description automatically generated

Lab 2

A graph showing a curve

Description automatically generated with medium confidence**accuracy :0.89**

Lab 3

**Model: "sequential"**

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┃ **Layer (type)** ┃ **Output Shape** ┃ **Param #** ┃

┡━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━╇━━━━━━━━━━━━━━━━━━━━━━━━╇━━━━━━━━━━━━━━━┩

│ flatten (Flatten) │ (None, 784) │ 0 │

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│ dense (Dense) │ (None, 80) │ 62,800 │

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│ dense\_1 (Dense) │ (None, 40) │ 3,240 │

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│ dense\_2 (Dense) │ (None, 20) │ 820 │

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│ dense\_3 (Dense) │ (None, 10) │ 210 │

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**Total params:** 67,070 (261.99 KB)

**Trainable params:** 67,070 (261.99 KB)

**Non-trainable params:** 0 (0.00 B)

None

A graph with blue dots

AI-generated content may be incorrect.

**accuracy : 0.8898000121116638**

Lab 4

**Model: "sequential\_2"**

┏━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━┳━━━━━━━━━━━━━━━━━━━━━━━━┳━━━━━━━━━━━━━━━┓

┃ **Layer (type)** ┃ **Output Shape** ┃ **Param #** ┃

┡━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━╇━━━━━━━━━━━━━━━━━━━━━━━━╇━━━━━━━━━━━━━━━┩

│ dense\_6 (Dense) │ (None, 152) │ 3,040 │

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│ dense\_7 (Dense) │ (None, 64) │ 9,792 │

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│ dense\_8 (Dense) │ (None, 32) │ 2,080 │

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│ dense\_9 (Dense) │ (None, 1) │ 33 │

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**Total params:** 14,945 (58.38 KB)

**Trainable params:** 14,945 (58.38 KB)

**Non-trainable params:** 0 (0.00 B)

None

A graph with blue dots

AI-generated content may be incorrect.

**absolute prediction error = 68057.0 $**

**relative prediction error = 30.670121676430824 %**

Lab 5

Lab 6

Lab 7

Lab 8

Lab 9

Lab 10

Lab 11

Lab 12