LAB Logbook

Github link: <https://github.com/Aswathy-alien/ML>

Lab 1

1) Create a vector using np.arange.

A screenshot of a computer

Description automatically generated

2) Change matrix a to 2-d array with 1 row. Print the array.

A screenshot of a computer

Description automatically generated

3) Save it in another array. Print the array.

A screenshot of a computer

Description automatically generated

4) Check the shape attribute value.

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Description automatically generated

Lab2

Group by "relationship" and "hours-per-week".

A screen shot of a computer

Description automatically generated

Sid: 2261782, Where n=2

#### Reduce all "hours-per-week" column values ​​in the original DataFrame by subtracting the value 'n'. Use a function

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Description automatically generated

#### Group ​​by "relationship" and reduced "hours-per-week".

A screen shot of a computer

Description automatically generated

Lab 3

A screen shot of a computer

Description automatically generated

A screen shot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

A screen shot of a computer

Description automatically generated

Lab 4

A screenshot of a computer program

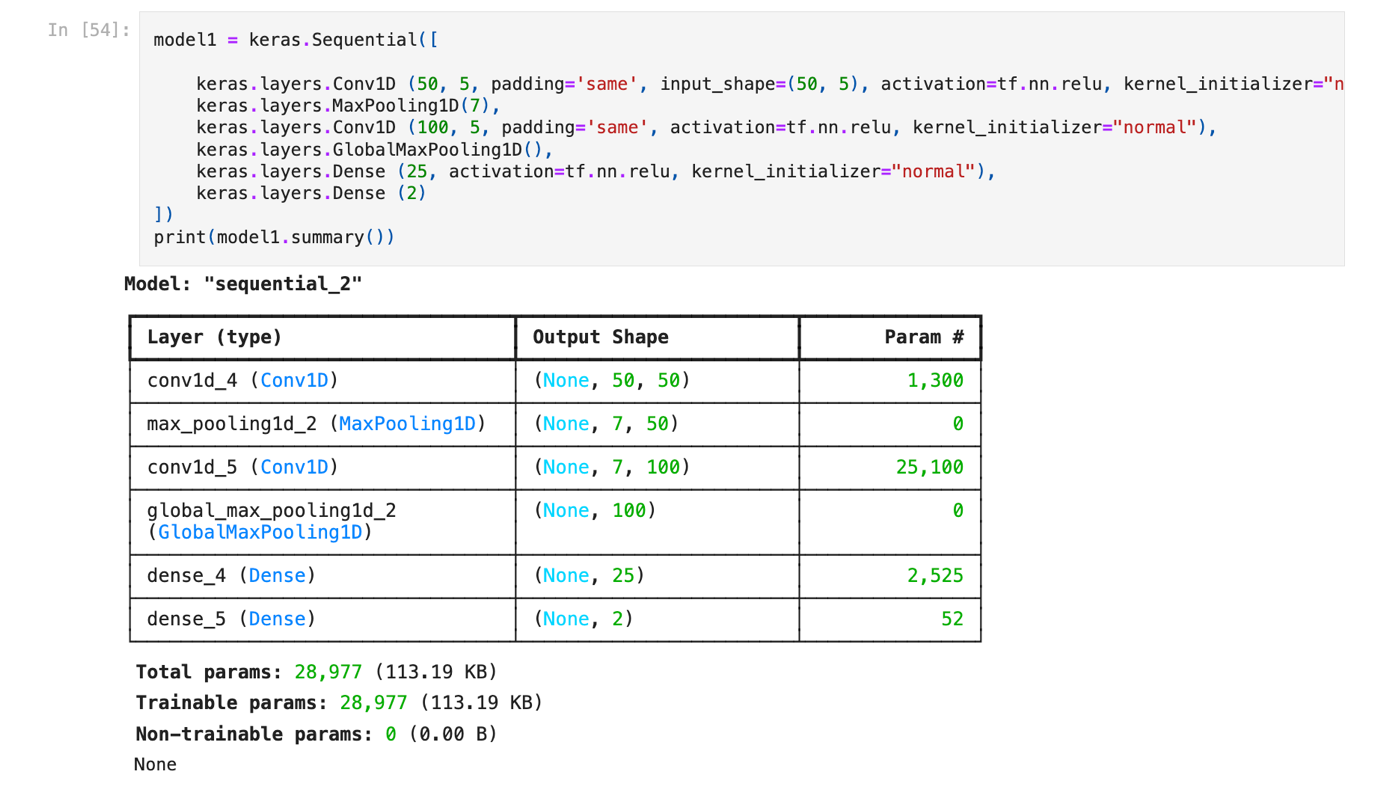
Description automatically generated

MAE:

A screenshot of a computer

Description automatically generated

Lab 5



A screenshot of a computer

Description automatically generated

Lab 6

A screenshot of a computer

Description automatically generated

Output:

A graph showing the price of a stock market

Description automatically generated

Lab 7

A screenshot of a computer

Description automatically generated

A screenshot of a computer program

Description automatically generated

A graph with blue and orange lines

Description automatically generated

Lab 8

**MAE resulting graph during the training process**

A graph with a line

Description automatically generated

**MAE detailed resulting graph during the training process**

A graph with a line and a line

Description automatically generated with medium confidence

Lab 9

Class test

Lab 10

Precision during training graph

A graph with a line

Description automatically generated

More detailed Precision graph

A graph with a line

Description automatically generated

Training accuracy graph

A graph with a line

Description automatically generated

More detailed Accuracy graph

A graph with a line

Description automatically generated

Lab 11

Create and train your own LSTM model

A screenshot of a computer code

Description automatically generatedA screenshot of a computer

Description automatically generatedA screenshot of a computer

Description automatically generatedA screenshot of a computer program

Description automatically generated

Adding all the LSTM's Error metrics

A graph of different colored bars

Description automatically generated with medium confidence

A blue squares with white text

Description automatically generated

A graph of loss of a number of people

Description automatically generated

A graph with blue and orange lines

Description automatically generated

A chart of a model

Description automatically generated with medium confidence