Week 2 Quiz

LATEST SUBMISSION GRADE

100%

1.
Question 1

What is a windowed dataset?

1 / 1 point

There's no such thing

A consistent set of subsets of a time series

The time series aligned to a fixed shape

A fixed-size subset of a time series

Correct

2.
Question 2

What does 'drop_remainder=true' do?

1 / 1 point

It ensures that all rows in the data window are the same length by adding data

It ensures that the data is all the same shape

It ensures that all rows in the data window are the same length by cropping data

It ensures that all data is used

Correct

3.

Question 3

What's the correct line of code to split an n column window into n-1 columns for features and 1 column for a label

1 / 1 point

dataset = dataset.map(lambda window: (window[n-1], window[1]))

dataset = dataset.map(lambda window: (window[:-1], window[-1:]))

dataset = dataset.map(lambda window: (window[-1:], window[:-1]))

dataset = dataset.map(lambda window: (window[n], window[1]))

Correct

4.

Question 4

What does MSE stand for?

1 / 1 point

Mean Series error

Mean Squared error

Mean Slight error

Mean Second error

Correct

5.

Question 5

What does MAE stand for?

1 / 1 point

Mean Average Error

Mean Advanced Error

Mean Absolute Error

Mean Active Error

Correct

6.
Question 6

If time values are in time[], series values are in series[] and we want to split the series into training and validation at time 1000, what is the correct code?

1 / 1 point

time_train = time[:split_time]

x_train = series[:split_time]

time_valid = time[split_time:]

x_valid = series[split_time:]

time_train = time[split_time]

x_train = series[split_time]

time_valid = time[split_time]

x_valid = series[split_time]

time_train = time[split_time]

x_train = series[split_time]

time_valid = time[split_time:]

x_valid = series[split_time:]

time_train = time[:split_time]

x_train = series[:split_time]

time_valid = time[split_time]

x_valid = series[split_time]

Correct

7.
Question 7
If you want to inspect the learned parameters in a layer after training, what's a good technique to use?

1 / 1 point

Iterate through the layers dataset of the model to find the layer you want

Decompile the model and inspect the parameter set for that layer

Run the model with unit data and inspect the output for that layer

Assign a variable to the layer and add it to the model using that variable. Inspect its properties after training

Correct

8.
Question 8
How do you set the learning rate of the SGD optimizer?

1 / 1 point

Use the RateOfLearning property

Use the Rate property

Use the lr property

You can’t set it

Correct

9.

Question 9

If you want to amend the learning rate of the optimizer on the fly, after each epoch, what do you do?

1 / 1 point

Use a LearningRateScheduler and pass it as a parameter to a callback

Callback to a custom function and change the SGD property

Use a LearningRateScheduler object in the callbacks namespace and assign that to the callback

You can’t set it

Correct