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Deep Neural Networks for Time Series

✓

Video: A conversation with Andrew Ng

1 min

✓

Video: Preparing features and labels

4 min

✓

Video: Preparing features and labels

3 min

✓

Reading: Preparing features and labels notebook

10 min

✓

Reading: Sequence bias

10 min

✓

Video: Feeding windowed dataset into neural network

2 min

✓

Video: Single layer neural network

2 min

✓

Video: Machine learning on time windows

37 sec

✓

Video: Prediction

2 min

✓

Video: More on single layer neural network

2 min

✓

Reading: Single layer neural network notebook

10 min

✓

Video: Deep neural network training, tuning and prediction

4 min

✓

Video: Deep neural network

3 min

✓

Reading: Deep neural network notebook

10 min

✓

Quiz: Week 2 Quiz

9 questions

✓

Reading: Week 2 Wrap up

10 min

Weekly Exercise - Create Synthetic Data and predict with a DNN

✓

Congratulations! You passed!

QUIZ

TO PASS 80% or higher

Keep Learning

GRADE

100%

Submit your assignment

Try again

LATEST SUBMISSION GRADE

100%

DUE DATE Sep 21, 12:29 PM IST

ATTEMPTS 3 every 8 hours

1. What is a windowed dataset?

1 / 1 point

✓

Receive grade

TO PASS 80% or higher

○

The time series aligned to a fixed shape

○

A fixed-size subset of a time series

○

There's no such thing

○

A consistent set of subsets of a time series

✓

Correct

2. What does 'drop_remainder=true' do?

1 / 1 point

○

It ensures that all data is used

○

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

○

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

✓

Correct

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. What does MSE stand for?

1 / 1 point

💡

Challenge yourself!

About 45% of learners didn't pass this exam on their first try. But don't worry, you can always try again!

Was this helpful?

Yes

No

○

✗

Mean Second error

○

Mean Series error

○

Mean Squared error