Week 4 Quiz

Quiz, 8 questions

7/8 points (87.50%)

Congratulations! You passed!

Next Item

1 / 1 point

1.

How do you add a 1 dimensional convolution to your model for predicting time series data?

- **Use a Conv1D layer type**

Correct

- **Use a 1DConvolution layer type**
- **Use a Convolution1D layer type**
- **Use a 1DConv layer type**

---

1 / 1 point

2.

What's the input shape for a univariate time series to a Conv1D?

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- [x] **[None, 1]**

Correct

- [ ] **[1, None]**
- [ ] **[1]**
- [ ] []

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1 / 1 point

3.

You used a sunspots dataset that was stored in CSV. What's the name of the Python library used to read CSVs?

- [x] **CSV**

Correct

- [ ] **PyFiles**
- [ ] **CommaSeparatedValues**

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0 / 1 point

4.

If your CSV file has a header that you don't want to read into your dataset, what do you execute before iterating through the file using a 'reader' object?

- **reader.next**
- **reader.ignore_header()**

  This should not be selected
- **next(reader)**
- **reader.read(next)**

1 / 1 point

5.

When you read a row from a reader and want to cast column 2 to another data type, for example, a float, what's the correct syntax?

Convert.toFloat(row[2])

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float f = row[2].read()

You can't. It needs to be read into a buffer and a new float instantiated from the buffer

float(row[2])

Correct

1 / 1 point

6.

What was the sunspot seasonality?

4 times a year

11 or 22 years depending on who you ask

Correct

22 years

11 years

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1 / 1 point

7.

After studying this course, what neural network type do you think is best for predicting time series like our sunspots dataset?

- **A combination of all of the above**

Correct

- **DNN**
- **Convolutions**
- **RNN / LSTM**

1 / 1 point

8.

Why is MAE a good analytic for measuring accuracy of predictions for time series?

- **It punishes larger errors**
- **It only counts positive errors**

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It biases towards small errors

It doesn’t heavily punish larger errors like square errors do

Correct