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Week 4 Quiz

LATEST SUBMISSION GRADE
100%

1. **How do you add a 1 dimensional convolution to your model for predicting time series data?** — 1 / 1 point

- ○ Use a Convolution1D layer type
- ○ Use a 1DConvolution layer type
- ○ Use a 1DConv layer type
- ◉ Use a Conv1D layer type

✓ Correct

2. **What's the input shape for a univariate time series to a Conv1D?** — 1 / 1 point

- ○ [1]
- ○ [1, None]
- ◉ [None, 1]
- ○ []

✓ Correct

3. **You used a sunspots dataset that was stored in CSV. What's the name of the Python library used to read CSVs?** — 1 / 1 point

PyFiles

PyCSV

CommaSeparatedValues

CSV

Correct

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? 1 / 1 point

next(reader)

reader.ignore_header()

reader.read(next)

reader.next

Correct

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? 1 / 1 point

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

Convert.toFloat(row[2])

float(row[2])

float f = row[2].read()

Correct

6. What was the sunspot seasonality? 1 / 1 point

22 years

11 years

11 or 22 years depending on who you ask

4 times a year

Correct

7. After studying this course, what neural network type do you think is best for predicting time series like our sunspots dataset? 1 / 1 point

- RNN / LSTM
- A combination of all of the above
- Convolutions
- DNN

✓ Correct

8. Why is MAE a good analytic for measuring accuracy of predictions for time series? 1 / 1 point

- It only counts positive errors
- It punishes larger errors
- It biases towards small errors
- It doesn't heavily punish larger errors like square errors do

✓ Correct