Week 4 Quiz

TOTAL POINTS 8

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

- [ ] **Use a 1DConv layer type**
- [x] **Use a Conv1D layer type**
- [ ] **Use a Convolution1D layer type**
- [ ] **Use a 1DConvolution layer type**

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

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

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

- [ ] **PyFiles**
- [ ] **PyCSV**
- [ ] **CommaSeparatedValues**
- [x] **CSV**

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 point

- [ ] **reader.next**
- [x] **next(reader)**
- [ ] **reader.ignore_header()**
- [ ] **reader.read(next)**

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 point

- [ ] **You can't. It needs to be read into a buffer and a new float instantiated from the buffer**
- [x] **float(row[2])**
- [ ] **Convert.toFloat(row[2])**
- [ ] **float f = row[2].read()**

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

- [ ] **4 times a year**
- [ ] **11 years**
- [ ] **22 years**

- [ ]
- [x] 11 or 22 years depending on who you ask

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

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

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

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

Upgrade to submit