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What do you want to learn?









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Course Info

# Week 4

Sequences, Time Series and Prediction

#### Week 4

Discuss this week's modules here.

299 threads · Last post 8 days ago

Go to forum

### Real-world time series data



Laurence Moroney

On top of DNNs and RNNs, let's also add convolutions, and then put it all together using a real-world data series -- one which measures sunspot activity over hundreds of years, and see if we can predict using it.

### Real-world time series data

- Video: Week 4 A conversation with Andrew Ng 1 min
- ✓ Video: Convolutions 58 sec
- Reading: Convolutional neural networks course 10 min
- ✓ Video: Bi-directional LSTMs 3 min
- Reading: More on batch sizing 10 min
- **Video:** LSTM 1 min
- Reading: LSTM notebook 10 min
- ▶ Video: Real data sunspots 3 min

Resume

- ▶ Video: Train and tune the model 3 min
- ▶ Video: Prediction 1 min
- ▶ Video: Sunspots 1 min
- Reading: Sunspots notebook 10 min
- **▶ Video:** Combining our tools for analysis <sup>3 min</sup>
- Quiz: Week 4 Quiz 8 questions Due Dec 7, 1:59 AM CST

# Weekly Exercise - Sunspots

- Ungraded External Tool: Exercise 4 Sunspots 1h
- (Z) Ungraded External Tool: Exercise 4 Answer Sunspots 1h

# Course 4 Wrap up

- Reading: Wrap up 10 min
- ▶ Video: Congratulations! 38 sec

TensorFlow in practice has come to an end

▶ **Video:** Specialization wrap up - A conversation with Andrew Ng 2 min

