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# Week 1

Sequences, Time Series and Prediction

#### Week 1

Discuss this week's modules here.

223 threads · Last post 9 days ago

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### **Sequences and Prediction**



Laurence Moroney

Hi Learners and welcome to this course on sequences and prediction! In this course we'll take a look at some of the unique considerations involved when handling sequential time series data -- where values change over time, like the temperature on a particular day, or the number of visitors to your web site. We'll discuss various methodologies for predicting future values in these time series, building on what you've learned in previous courses!

∧ Less

#### Introduction

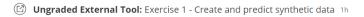
▶ Video: Introduction, A conversation with Andrew Ng 3 min

Resume

## Sequences and Prediction

- ▶ Video: Time series examples 4 min
- Video: Machine learning applied to time series 1 min
- ▶ Video: Common patterns in time series 5 min
- ▶ Video: Introduction to time series 4 min
- Reading: Introduction to time series notebook 10 min
- Video: Train, validation and test sets 3 min
- **▶ Video:** Metrics for evaluating performance 2 min
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- ▶ Video: Trailing versus centered windows 1 min
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- Reading: Forecasting notebook 10 min
- Quiz: Week 1 Quiz 9 questions Due Nov 16, 1:59 AM CST
- Reading: Week 1 Wrap up 10 min

Weekly Exercise-Create and predict synthetic data



(d) Ungraded External Tool: Exercise 1 Answer- Create and predict synthetic data 1h

