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Course Info

# Week 2

Sequences, Time Series and Prediction

## Week 2

Discuss this week's modules here.  
247 threads · Last post 7 days ago

Go to forum

## Deep Neural Networks for Time Series



Laurence Moroney

Having explored time series and some of the common attributes of time series such as trend and seasonality, and then having used statistical methods for projection, let's now begin to teach neural networks to recognize and predict on time series!

## Deep Neural Networks for Time Series



Video: A conversation with Andrew Ng 1 min

Resume



Video: Preparing features and labels 4 min



Video: Preparing features and labels 3 min



Reading: Preparing features and labels notebook 10 min



Reading: Sequence bias 10 min



Video: Feeding windowed dataset into neural network 2 min



Video: Single layer neural network 2 min



Video: Machine learning on time windows 37 sec



Video: Prediction 2 min



Video: More on single layer neural network 2 min



Reading: Single layer neural network notebook 10 min



Video: Deep neural network training, tuning and prediction 4 min



Video: Deep neural network 3 min



Reading: Deep neural network notebook 10 min



Quiz: Week 2 Quiz 9 questions Due Nov 23, 1:59 AM CST



Reading: Week 2 Wrap up 10 min

## Weekly Exercise - Create Synthetic Data and predict with a DNN



Ungraded External Tool: Exercise 2 - Predict with a DNN 1h



Ungraded External Tool: Exercise 2 Answer- Predict with a DNN 1h