

Lecture 10. Recurrent Neural

<u>Course</u> > <u>Unit 3 Neural networks (2.5 weeks)</u> > <u>Networks 1</u> 2. Introduction

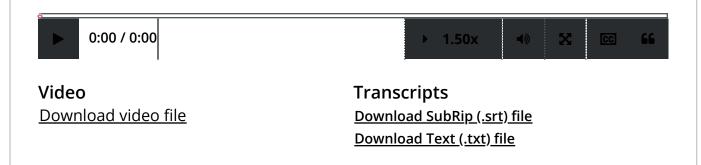
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2. Introduction Introduction to Recurrent Neural Networks

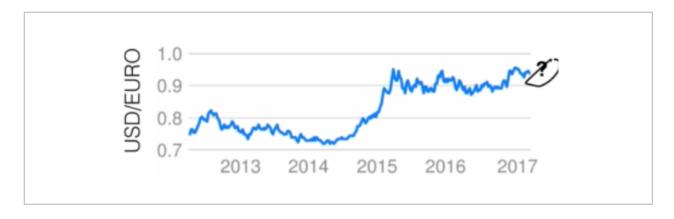




Encoding Sequences with Feed-Forward Neural Networks

1/1 point (graded)

We have a temporal dataset of USD/EURO conversion rate from late 2012 to early 2017. Our goal is to predict the value of USD/EURO at the next timestep of early 2017.



If we are trying to encode the data into feature vectors for a feed-forward neural network, which of the following is the most viable strategy?

- slide a window of size 10 and use the most recent 10 points as a feature vector
 calculate the mean and the standard deviation of the entire sequence, and use them as a feature vector
 - Use the length of the sequence and the standard deviation as a feature vector



Solution:

As discussed in the lecture, a common scheme to encode sequences is to use sliding windows and use data inside the most recent sliding window.

Submit

You have used 1 of 2 attempts

Answers are displayed within the problem

Context for Predicting Next Word

0/1 point (graded)

What is the issue with predicting the next word in the sentence using the previous **three** words as context?

(Choose all that apply.)

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