Mindluster Platform

About the course Sequence Models Natural Language

Sequence models are the machine learning models that input or output sequences of data. Sequential data includes text streams, audio clips, video clips, time-series data and etc. Recurrent Neural Networks (RNNs) is a popular algorithm used in sequence models .

Programming Category's Courses

Course Lesson(36)

Lesson 1 : **RNN 1 Recurrent Neural Networks â€" Introduction | Motivation | Why Sequence Models**

Lesson 2 : **RNN 2 Notation | Sentence and Word Representation | Sequence Models**

Lesson 3 : **RNN 3 Recurrent Neural Network Model | RNN Model**

Lesson 4 : **RNN 4 Backpropagation through time | BPTT | RNN**

Lesson 5 : **RNN W1L05 Different types of RNNs**

Lesson 6 : **RNN W1L06 Language Model and sequence generation**

Lesson 7 : **RNN W1L07 Sampling novel Sequences**

Lesson 8 : **RNN W1L08 Vanishing gradients with RNNs**

Lesson 9 : **RNN W1L09 Gated Recurrent Unit GRU**

Lesson 10 : **RNN W1L10 Long Short Term Memory LSTM**

Lesson 11 : **LSTM in Keras | Understanding LSTM input and output shapes**

Lesson 12 : **RNN W1L11 Bidirectional RNN**

Lesson 13 : **RNN W1L12 Deep RNNs**

Lesson 14 : **RNN W2L01 Word Representation**

Lesson 15 : **RNN W2L02 Using Word Embeddings**

Lesson 16 : **RNN W2L03 Properties of Word Embeddings**

Lesson 17 : **RNN W2L04 Embedding matrix**

Lesson 18 : **One hot representation in Keras Python | One hot encoding**

Lesson 19 : **RNN W2L05 Learning word embeddings**

Lesson 20 : **Embedding Layer Keras | Embedding as a Layer | Word Embedding**

Lesson 21 : **RNN W2L06 Word2Vec**

Lesson 22 : **RNN W2L07 Negative Sampling**

Lesson 23 : **RNN W2L08 GloVe word vectors**

Lesson 24 : **RNN W2L09 Sentiment Classification**

Lesson 25 : **RNN W2L10 Debiasing word embeddings**

Lesson 26 : **RNN W3L01 Basic Models**

Lesson 27 : **RNN W3L02 Picking the most likely sentence**

Lesson 28 : **RNN W3L03 Basic Search**

Lesson 29 : **RNN W3L04 Refinements to Beam**

Lesson 30 : **RNN W3L05 Error Analysis in Beam**

Lesson 31 : **RNN W3L06 Bleu Score Optional**

Lesson 32 : **RNN W3L07 Attention Model Intuition**

Lesson 33 : **RNN W3L08 Attention Model**

Lesson 34 : **RNN W3L09 Speech Recognition**

Lesson 35 : **RNN W3L10 Trigger Word Detection**

Lesson 36 : **RNN W3L11 Conclusion and Thank you**

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