

1. (True/False) RNN models are mostly used in the fields of natural language processing and speech recognition.

1 / 1 point

- ☒ True
☐ False

☒ Correct
Correct! You can find more information in the RNNs lesson.

2. (True/False) GRUs and LSTM are a way to deal with the vanishing gradient problem encountered by RNNs.

1 / 1 point

- ☒ True
☐ False

☒ Correct
Correct! You can find more information in the RNNs lesson.

3. (True/False) GRUs will generally perform about as well as LSTMs with shorter training time, especially for smaller datasets.

1 / 1 point

- ☒ True
☐ False

☒ Correct
Correct! You can find more information in the LSTM lesson.

4. (True/False) The main idea of Seq2Seq models is to improve accuracy by keeping necessary information in the hidden state from one sequence to the next.

1 / 1 point

- ☒ True
☐ False

☒ Correct
Correct! You can find more information in the LSTM lesson.

5. (True/False) The main parts of a Seq2Seq model are: an encoder, a hidden state, a sequence state, and a decoder.

1 / 1 point

- ☐ True
☒ False

☒ Correct
Correct! You can find more information in the LSTM lesson.

6. Select the correct option, in the context of Seq2Seq models:

1 / 1 point

- ☐ The Greedy Search algorithm selects one best candidate as an input sequence for each time step while the Beam Search produces multiple different hypothesis based on the output from the encoder.
- ☐ The Beam Search algorithm selects one best candidate as an input sequence for each time step while the Greedy Search produces multiple different hypothesis based on the output from the encoder.
- ☒ The Greedy Search algorithm selects one best candidate as an input sequence for each time step while the Beam Search produces multiple different hypothesis based on conditional probability.
- ☐ The Beam Search algorithm selects one best candidate as an input sequence for each time step while the Greedy Search produces multiple different hypothesis based on conditional probability.

☒ Correct
Correct! You can find more information in the LSTM lesson.

7. Which is the gating mechanism for RNNs that include a reset gate and an update gate?

1 / 1 point

- ☒ GRUs
- ☐ LSTMs
- ☐ Refined Gate
- ☐ Complex Gate

☒ Correct
Feedback: Correct! You can find more information in the LSTM lesson.

8. LSTM models are among the most common Deep Learning models used in forecasting. These are other common uses of LSTM models, except:

1 / 1 point

- ☐ Speech Recognition
- ☐ Machine Translation
- ☐ Image Captioning
- ☒ Generating Images
- ☐ Anomaly Detection
- ☐ Robotic Control

☒ Correct
Correct! Please review the LSTM lesson.