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 NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » Deep Learning - IIT Ropar (course)


Course outline

How does an NPTEL online course work?

Week 0

Week 1

Week 2

Week 3

week 4

Week 5

Week 6

Week 7

Week 8

Week 9

week 10

Week 11

Assignment 12

The due date for submitting this assignment has passed.

Due on 2021-04-14, 23:59 IST.

Assignment submitted on 2021-04-14, 23:47 IST

1) In the problem of Image captioning, we use encoder-decoder model, wherein the encoding is taken care by RNN and the decoding is taken care by CNN.

1 point

☐ True

☒ False

Yes, the answer is correct.

Score: 1

Accepted Answers:

False

2) Which of the following is/are the application/s of encoder-decoder models?

1 point

☒ Image captioning

☒ Text entailment

☒ Machine translation

☐ None of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

Image captioning

Text entailment

Machine translation

Week 12

☐ Introduction to Encoder Decoder Models (unit? unit=161&lesson=162)

☐ Applications of Encoder Decoder models (unit? unit=161&lesson=163)

☐ Attention Mechanism (unit? unit=161&lesson=164)

☐ Attention Mechanism (Contd.) (unit? unit=161&lesson=165)

☐ Attention over images (unit? unit=161&lesson=166)

☐ Hierarchical Attention (unit? unit=161&lesson=167)

☒ Lecture Material for Week 12 (unit? unit=161&lesson=168)

☒ **Quiz: Assignment 12 (assessment? name=190)**

☐ Week 12 Feedback Form : Deep Learning - IIT Ropar (unit? unit=161&lesson=169)

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3) _____ is the process of determining whether a given piece of text 'T' entails another text called the "hypothesis". **1 point**

- ☐ Image captioning
☒ Text entailment
☐ Machine transliteration
☐ None of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

Text entailment

4) In the problem of Machine Translation, which uses the encoder-decoder model, RNN is **1 point** involved in both encoding and decoding.

- ☒ True
☐ False

Yes, the answer is correct.

Score: 1

Accepted Answers:

True

5) In the problem of video captioning, the encoder-decoder model uses _____ **1 point**

- ☐ RNN of CNN as encoder and CNN as decoder
☐ CNN of RNN as encoder and CNN as decoder
☐ RNN of CNN as encoder and RNN as decoder
☒ CNN of RNN as encoder and RNN as decoder

No, the answer is incorrect.

Score: 0

Accepted Answers:

RNN of CNN as encoder and RNN as decoder

6) Related to modeling an attention mechanism for images, we typically take the representation from a CNN. **1 point**

- ☒ True
☐ False

No, the answer is incorrect.

Score: 0

Accepted Answers:

False

7) S_1 and S_2 are statements with respect to 'Dialog', choose the correct option. **1 point**

S_1 : The Dialog contains a sequence of utterances between the user and the bot.

S_2 : Each utterance in turn is a sequence of words.

- ☐ S_1 is true and S_2 is false.
☐ S_1 is false and S_2 is true.

- ☒ Both S_1 and S_2 are true.
☐ Both S_1 and S_2 are false.

Yes, the answer is correct.

Score: 1

Accepted Answers:

Both S_1 and S_2 are true.

8) The Encoder for a sequence of sequence is _____

1 point

- ☐ RRN
☒ RNN
☐ RNR
☐ None of these

Yes, the answer is correct.

Score: 1

Accepted Answers:

RNN

9) With respect to a two-level hierarchical RNN encoder, the first level RNN operates on the sequence of words on each utterance and gives us a representation. **1 point**

- ☒ True
☐ False

Yes, the answer is correct.

Score: 1

Accepted Answers:

True

10) The decoder used for a sequence of sequence should be a hierarchical RNN.

1 point

- ☒ True
☐ False

No, the answer is incorrect.

Score: 0

Accepted Answers:

False