Started on	Saturday, 22 June 2024, 11:47 PM
State	Finished
Completed on	Saturday, 22 June 2024, 11:54 PM
Time taken	6 mins 22 secs
Question 1	
Correct	
Marked out of 2.00	

Task: Considering **Recurrent Neural Networks** (RNN), select **architectures** that help to increase **long-term dependencies** and mitigate **vanishing gradients**.

Select one or more:

- a. Rectified Linear Units
- \square b. Long Short Term Memory cells \checkmark
- c. Inception Modules
- d. Residual Blocks
- Ø e. Gated Recurrent Unit cells

 ✓

Die Antwort ist richtig.

The correct answers are: Long Short Term Memory cells, Gated Recurrent Unit cells

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Question 2	
Partially correct	
Marked out of 1.00	
Below are statements on word embe	ddinas
Task : Select all correct statements.	adings.
rask. Select all correct statements.	
a. Word embeddings can mode	el the relationship between words. 🗸
b. Word embedding vectors are	e typically smaller compared to one-hot encoded word representations. \checkmark
c. When adding one word to the	ne vocabulary, the dimension of the word embedding space grows by one.
d. Typically word embedding ve	ectors are very sparse and can be efficiently implemented using indexed representations.
e. Words with similar meanings	have similar word embedding vectors.
f. One-hot encoded word repr	esentations are the same as word embeddings.
Your answer is partially correct.	
You have correctly selected 2.	
The correct answers are:	
Word embeddings can model the rel	ationship between words.,
Words with similar meanings have sir	nilar word embedding vectors.,
Word embedding vectors are typicall	y smaller compared to one-hot encoded word representations.
Question 3	
Incorrect	
Marked out of 1.00	
Consider the topic of the constant	
your embedding size should also an	mbedding for a vocabulary of 1000 words . In order to capture the meanings and relations of all words, nount to 1000 .
Question: Is this correct or not?	
Select one:	
○ False	
The correct answer is 'False'.	

https://moodle.tu-ilmenau.de/mod/quiz/review.php?attempt=26002&cmid=51202

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Question 4	
Incorrect	
Marked out of 1.00	
Consider you want to train a recurrer	at neural network (RNN) to translate from english to german sentences.
Question: Which RNN architecture is	most suited for this task?
a. Many-to-many (unsynchroni	zed)
b. Many-to-many (synchronized)	× (b
oc. Many-to-one	
d. One-to-many	
Your answer is incorrect.	
The correct answer is:	
Many-to-many (unsynchronized)	
Question 5	
Incorrect	
Marked out of 1.00	
Question: Using recurrent neural ne	etworks in encoder-decoder architecture, what should be used as initial hidden input for the decoder?
a. The last encoder output. ×	
b. The average encoder output	
c. The last encoder hidden stat	e.
od. The last decoder hidden stat	e.
e. The sum of all encoder hidde	en states.
f. The first encoder hidden state	e.
g. The average of all encoder h	idden states.

Your answer is incorrect.

The correct answer is:

The last encoder hidden state.

Question	6

Incorrect

Marked out of 2.00

Consider you successfully trained a word embedding on a huge corpus of text.

Question: Which of the following equations do you expect to be valid? Select all that apply.

Select one or more:

- lacksquare a. $e_{
 m lounging} e_{
 m learning} pprox e_{
 m pass} e_{
 m fail}$ imes
- $oxed{\hspace{0.5cm}}$ b. $e_{
 m uncle}-e_{
 m man}pprox e_{
 m aunt}-e_{
 m woman}$
- lacksquare c. $e_{
 m fail}-e_{
 m lounging}pprox e_{
 m pass}-e_{
 m learning}$
- $oxed{}$ d. $e_{
 m uncle} e_{
 m man} pprox e_{
 m woman} e_{
 m aunt}$
- $ext{ } ext{ } ext$

Die Antwort ist falsch.

The correct answers are:
$$e_{\mathrm{fail}} - e_{\mathrm{lounging}} pprox e_{\mathrm{pass}} - e_{\mathrm{learning}}$$

,
$$e_{
m uncle} - e_{
m man} pprox e_{
m aunt} - e_{
m woman}$$

<u>Impressum</u> <u>Datenschutz</u> <u>Betriebsregeln</u>