


Graded Quiz: Fundamentals of Language Understanding

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Graded Assignment • 18 min

Due Oct 7, 11:59 PM PDT

1.

Question 1

If the vector representations of the tokens 'I', 'love', and 'dogs' are as follows, select the bag-of-words representation of 'I love dogs'.

I	love	dogs
$\begin{bmatrix} 0 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \end{bmatrix}$	$\begin{bmatrix} 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{bmatrix}$	$\begin{bmatrix} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 0 \end{bmatrix}$

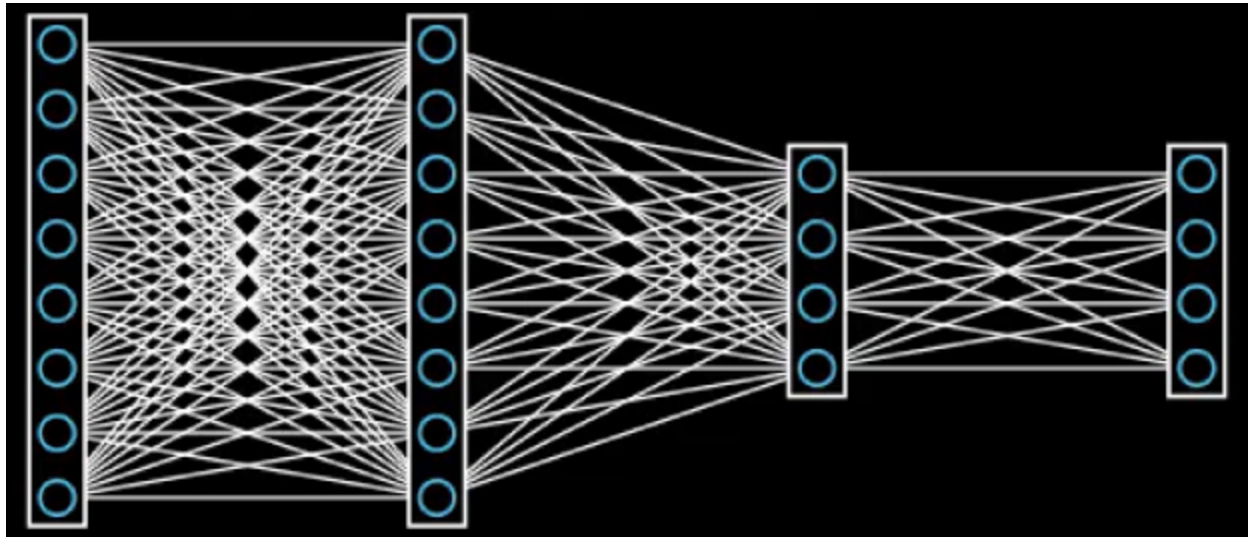
Status: [object Object]

1 point

2.

Question 2

Consider the following neural network. Identify the number of neurons in the first and second embedding layers.



Status: [object Object]

1 point

3.

Question 3

Which of the following expressions is used to find cross-entropy loss?

Status: [object Object]

1 point

4.

Question 4

Consider the following code, which is used while splitting a data set. What is the significance of specifying the batch size and shuffling the data?

```
BATCH_SIZE = 64

train_dataloader = DataLoader(split_train, batch_size=BATCH_SIZE,
                              shuffle=True, collate_fn=collate_batch)

valid_dataloader = DataLoader(split_valid, batch_size=BATCH_SIZE,
                              shuffle=True, collate_fn=collate_batch)

test_dataloader = DataLoader(test_dataset, batch_size=BATCH_SIZE,
                              shuffle=True, collate_fn=collate_batch)
```

Status: [object Object]

1 point

5.

Question 5

With reference to neural networks for n-gram language models, which of the following statements is **TRUE** regarding the context vector?

Status: [object Object]

1 point

6.

Question 6

Which of the following should be prioritized as your key performance indicator (KPI) while training the model?

Status: [object Object]

1 point