

▼ 20233_csci_544_30249:
Applied Natural
Language Processing

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Review Test Submission: Quiz 6

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Course	20233_csci_544_30249: Applied Natural Language Processing
Test	Quiz 6
Started	10/24/23 5:35 PM
Submitted	10/24/23 5:45 PM
Due Date	10/24/23 5:50 PM
Status	Completed
Attempt Score	64.66665 out of 100 points
Time Elapsed	10 minutes out of 10 minutes
Results Displayed All Answers, Submitted Answers, Correct Answers	

Question 1

0 out of 10 points

What is the Levenshtein edit distance between the words "act" and "cat" when using the 4 possible operators from the Levenshtein edit operators? Select the correct option:

Selected Answer:  2

Answers: 2

 1



3

5

Question 2

10 out of 10 points

What is the main advantage of Transfer-Based Machine Translation compared to the rule-based method?

Selected Answer:  rules on syntactic structures are more generalizableAnswers:  rules on syntactic structures are more generalizable

Has Fewer steps



Requires no human supervision

Requires less data to train

Question 3

10 out of 10 points

In the context of machine translation, why do we use rule-based translation?

Selected Answer:  Designing rules can be done by humans without any need to use machine learningAnswers:  Designing rules can be done by humans without any need to use machine learning

The act of adjusting the formatting and layout of translated content is easy.





The evaluation of the overall translation quality by human translators is easy.

The process of identifying errors in translated text is easy.

Question 4


6.66666 out of 10 points

Which of the following operations can be performed on PyTorch tensors?
Select all that apply:

Selected Answers:  Matrix multiplication Sorting elements in a tensor Building complex neural network architectures Directly applying traditional Python functions like filter to tensorsAnswers:  Matrix multiplication Sorting elements in a tensor

Backpropagation independently

Optimize values automatically without an optimizer

 Building complex neural network architectures

Directly applying traditional Python functions like filter to tensors

Question 5

8 out of 10 points

Which are part of the Levenshtein edit distance for fixing spelling errors:

- Selected Answers: ☒ Insertion
☒ Substitution
☒ Deletion
☒ Transposition of two adjacent letters
- Answers: ☒ insertion of space or hyphen
☒ Insertion
☒ Substitution
☒ Deletion
☒ Transposition of two adjacent letters

Question 6

6.66666 out of 10 points

Select all that are part of spelling errors

- Selected Answers: ☒ Typographical errors
☒ Non-word Errors
- Answers: ☒ Cognitive Errors
☐ Semantic Error
☒ Typographical errors
☐ Information error
☒ Non-word Errors

Question 7

0 out of 10 points

Which type of spelling error best describes the following errors?

"Writting" instead of "writing"
"Happyness" instead of "happiness"
"Atempt" instead of "attempt"

- Selected Answer: ☒ Typographical errors
- Answers: ☒ Non-word errors
☐ Information error
☐ Typographical errors
☐ Semantic Error

Question 8

10 out of 10 points

In the context of the Noisy Channel Model for spell checking, what are the two key components used to estimate the probability of a word being misspelled and suggest corrections? Select the correct option:

- Selected Answer: ☒ Error model and language model
- Answers: ☐ Morphology and syntax
☐ Synonyms and antonyms
☐ Phonetics and homophones
☒ Error model and language model

Question 9

10 out of 10 points

Which of the following statements is true about "autograd" in PyTorch?

- Selected Answer: ☒ It automatically computes gradients for tensors, enabling gradient-based optimization.
- Answers: ☐ It's a visualization library for neural networks.
☐ It's a deep learning framework for reinforcement learning.
☒ It automatically computes gradients for tensors, enabling gradient-based optimization.
☐ It's a module for generating random numbers.

Question 10

3.33333 out of 10 points

Select all that **are** part of the forward pass in designing neural networks with Pytorch.

- Selected Answers: ☒ Compute the accuracy of the model
- Answers: ☐ Updating parameters
☐ Computing gradients
☒ Compute the accuracy of the model

- ✓ Computer output of the network
- ✓ Compute loss value

Saturday, January 20, 2024 11:41:20 PM PST

← OK