NPTEL » Natural Language Processing

1 point

Unit 4 - Week 2 Course outline **Assignment 2** How to access the portal Week 0 : Assignment 0 1) Consider the following corpus C₁ of 4 sentences. What is the total count of unique bi-grams for Week 1 Week 2 Lecture 6: Spelling Correction: Edit Distance Lecture 7: Weighted Edit Distance, Other Variations Lecture 8: Noisy Channel Model for Spelling Correction a. 24 Lecture 9: N-Gram Language b. 28 Models c. 27 Lecture 10: Evaluation of d. 23 Language Models, Basic Smoothing Lecture 11: Tutorial I ○ b. ○ c. Week 2: Lecture Materials ○ d. Quiz : Assignment 2 No, the answer is incorrect. Feedback for Week 2 Score: 0 Accepted Answers: Week 3 a. Week 4 Week 5 Week 6 Week 7 d. Three Week 8 (a. b. Week 9 ○ c. ○ d. Week 10 Week 11 Accepted Answers: Week 12 3) Arrange the words "blueberry, cranberry, raspberry, strawberry" in descending order, based DOWNLOAD VIDEOS on the frequency of their occurrence in the Google Books n-grams. The Google Books n-gram Solutions

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment.

Due on 2019-08-21, 23:59 IST.

which the likelihood will be estimated? Assume we do not perform any pre-processing. today is Nayan's birthday she loves ice cream she is also fond of cream cake

we will celebrate her birthday with ice cream cake

A 4-gram model is a _____ order Markov Model.

a. Constant b. Five c. Four

No, the answer is incorrect.

viewer is available at https://books.google.com/ngrams. a. raspberry, strawberry, blueberry, cranberry b. blueberry, cranberry, raspberry, strawberry c. strawberry, raspberry, cranberry, blueberry

- d. None of the above

4) For the string 'mash', identify which of the following set of strings have a Levenshtein distance

No, the answer is incorrect.

Accepted Answers:

of 1.

○ a. ○ b.

○ c. ○ d.

○ a. ○ b.

○ a. ○ b.

○ c. ○ d.

a. smash, mas, lash, mushy, hash b. bash, stash, lush, flash, dash c. smash, mas, lash, mush, ash

- d. None of the above

- No, the answer is incorrect. Accepted Answers:

5) Assume that we modify the costs incurred for operations in calculating Levenshtein distance,

distance of 1? a. ash, slash, clash, flush b. flash, stash, lush, blush, c. slash, last, bash, ash

such that both the insertion and deletion operations incur a cost of 1 each, while substitution

incurs a cost of 2. Now, for the string 'lash' which of the following set of strings will have an edit

d. None of the above

- c. ○ d.
- No, the answer is incorrect. Score: 0 Accepted Answers:

likelihood of "dried berries" after applying add-one smoothing is 0.04. What is the vocabulary size of C2? a. 3585

Given a corpus C2, the Maximum Likelihood Estimation (MLE) for the bigram "dried berries" is

0.3 and the count of occurrence of the word "dried" is 580. for the same corpus $C_{2,}$ the

d. 3995

c. 1/24

b. 3795

c. 4955

No, the answer is incorrect.

Accepted Answers:

○ a. ○ b.

○ c. ⊕d.

Score: 0

7) Calculate P(they play in a big garden) assuming a bi-gram language model. a. 1/8 b. 1/12

d. None of the above (a.

- b. ○ c.
- **d**. No, the answer is incorrect. Score: 0

8) Considering the same model as in Question 7, calculate the perplexity of <s> they play in a big garden <\s>.

Accepted Answers:

○ b. ○ c.

○ d.

d. 2.178 ○ a.

Assume that you are using a bi-gram language model with add one smoothing. Calculate P(they

a. 2.289

b. 1.426

c. 1.574

No, the answer is incorrect. Score: 0 Accepted Answers:

play in a beautiful garden). a. 4.472 x 10^-6

c. 3.135 x 10^-6 d. None of the above

Oc. ○d. No, the answer is incorrect.

b. 2.236 x 10^-6

10) Which of the following sentences will be most likely to occur according to the language model

Accepted Answers:

(a. ○ b.

Score: 0

○ b.

○ c. ○ d.

Score: 0

of Question 9? a. <s> children play inside

d. <s> inside a play ○ a.

b. <s> in big garden

c. <s> there is big

- No, the answer is incorrect.

Accepted Answers: