2. Markov Models
Markov Models

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Markov Symbols

1/1 point (graded)
To specify a Markov language model, what additional symbols do we need to add to our set of possible symbols?
(Choose all that apply.)

- [x] a start symbol
- [x] an end symbol
- [x] a symbol for unknown words
- [ ] a symbol for complicated words

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✔ Correct (1/1 point)

Transition Probabilities

1/2 points (graded)

w_{i-1} \ w_i	ML	course	is	UNK	<end>
<beg>	0.7	0.1	0.1	0.1	0.0
ML	0.1	0.5	0.2	0.1	0.1
course	0.0	0.0	0.7	0.1	0.2
is	0.1	0.3	0.0	0.6	0.0
UNK	0.1	0.2	0.2	0.3	0.2

Using a first order Markov model specified above, what is the probability of generating the following sentence <beg> ML course UNK <end>?

- (●) 0.007
- ( ) 0.01
- ( ) 0.003
- ( ) 0.005

✔

Which of the following sentences are possible to generate?
(Choose all those apply.)

- [x] <beg> course ML is UNK <end>
- [x] <beg> <end>
- [ ] course is ML <end>
- [x] <beg> ML course <end>

✖

Submit You have used 2 of 2 attempts

✱ Partially correct (1/2 points)

Maximum Likelihood

1/1 point (graded)

Suppose our training examples are the following three sentences.

ML courses are cool.

Humanities courses are cool.

But some courses are boring.

Using a bigram model, what is the maximum likelihood estimate for the probability that the next word is 'cool', given that the previous word is 'are'?

- (selected) $\frac{2}{3}$
- 1
- $\frac{1}{3}$
- $\frac{1}{4}$

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✔ Correct (1/1 point)

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Topic: Unit 3 Neural networks (2.5 weeks):Lecture 11. Recurrent Neural Networks 2 / 2. Markov Models

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misspelling wording on "Which of the following sentences are possible to generate?" 1

I think that you should use "probable" rather than "possible". Because, events that are impos...

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