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Machine Learning with Python-From Linear Models to Deep Learning

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2. Markov Models

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Exercises due Mar 29, 2023 08:59 -03   Past due
Markov Models

▶

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Markov Symbols

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

☐ a start symbol

☐ an end symbol

☐ a symbol for unknown words

☐ a symbol for complicated words

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 <beg> ML course UNK <end>?

- ○ 0.007

- ○ 0.01

- ○ 0.003

- ○ 0.005

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

- ☐ <beg> course ML is UNK <end>

- ☐ <beg> <end>

- ☐ course is ML <end>

- ☐ <beg> ML course <end>

Submit   You have used 0 of 2 attempts

Maximum Likelihood

1 point possible (graded)
Suppose our training examples are the following three sentences.

ML courses are cool.

Humanities courses are cool.

But some courses are boring.

You have used 0 of 2 attempts

~~Submit~~

Discussion

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

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💬 **"UNK" origin?**

I couldn't help but be tickled by the term "UNK". I figured it had some type of logical backstory, but when I lo

? **How to better understand the logic behind the probabilities in the Markov table's columns?**

Taking the column "end" as example (Transition Probabilities exercise), I can understand that the probability

💬 **"probable to generate"?**

The phrase "probable to generate" should be changed to "possible to generate". The word "probable" means

💬 **the probability table**

I understand why the probabilities in each row should sum to 1.0, but I also think that each column should als

💬 **Product of Probabilities**

💬 **Rolling a weighted dice.**

The example of rolling the weighted dice is a perfect coincedence resulting a nice sentence. But, because w

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