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Machine Learning with Python-From Linear Models to Deep Learning

Course **Progress Discussion** Resources Dates

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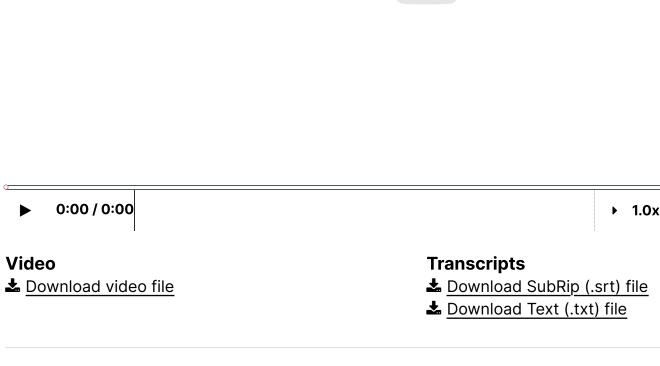
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3. Markov Models to Feedforward Neural Nets

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

Feature Based Markov Models and Temporal/Sequence Problems



Markov Transitions

2 points possible (graded)

Suppose we represent a Markov model as a feedforward neural network, as described word, let the probability that word j occurs next be p_j . Which of the condition(s) below be the set of words. (Choose all that apply.)

$igsqcup_{k\in K} p_k = 1$
$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $
$oxedsymbol{oxed} p_k$ is less than 0.5 for all $k \in K$

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You have used 0 of 2 attempts

Discussion

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

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- ? What are parameters in the Markov Model
 In Markov Model, instead of using a neural network approach we're using a probabilistic approach, right? So
- ? <u>PKs</u>

The Professor said that the transformation we need is that "PKs are non-zero". But what he wrote is PK >= 0

- ? How are the first and last words handled in a trigram model when using a Markov process?

 I'm starting with a 4 word trigram model to get the formula for the number of parameters needed by the difference of the number of parameters needed by the difference of the number of parameters needed by the difference of the number of parameters needed by the difference of the number of parameters needed by the difference of the number of parameters needed by the difference of the number of parameters needed by the difference of the number of parameters needed by the difference of the number of parameters needed by the difference of the number of parameters needed by the difference of the number of parameters needed by the difference of the number of parameters needed by the difference of the number of parameters needed by the difference of the number of parameters needed by the difference of the number of parameters needed by the number of parameters nee
- Can all information, which is possible to encode in a Markov model, be encoded in a neural new Any information encoded in a neural network could also be encoded in a very large transition probability material.
- 1st and 2nd order Markov models
 The transformation from a 1st order Markov model to a FFNN is deemed a perfectly valid transformation but

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