

MITx 6.86x

Machine Learning with Python-From Linear Models to Deep Learning

Progress Discussion Dates Resources Course

A Course / Unit 4. Unsupervised Learning (2 weeks) / Lecture 15. Generative Mo



3. Simple Multinomial Generative model

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Exercises due Apr 19, 2023 08:59 -03 Completed

Simple Multinomial Generative model

► 0:00 / 0:00 ► 1.03

Video

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Transcripts

- ▲ Download SubRip (.srt) file
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Note: For those who have taken 18.6501x (Fundamentals of Statistics): The concept introduced in the above video that models the probabilistic nature of data generation is learnt as a statistical model in 18.6501x. With parameter θ , the analogous notation that the statistics course is $(E, \{P_{\theta}\}_{\theta \in \Theta})$, where E is the sample space of the data and $\{E, \{E, \{P_{\theta}\}_{\theta \in \Theta}\}_{\theta \in \Theta}\}$.

Simple Multinomial Generative model

1/1 point (graded)

Consider a very simple multinomial model $oldsymbol{M}$ to generate text in documents.

Let us assume that this model M has a fixed vocabulary W and that we generate a down word at a time from this vocabulary. Furthermore, all the words that are generated by D other.

We would like to capture the fact in our generative model $m{M}$ that some words in $m{ar{W}}$ are

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