3. Simple Multinomial Generative model

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

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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 analagous notation that the statistics course is $(E, \{P_\theta\}_{\theta \in \Theta})$, where E is the sample space of the data and $\{$ distributions parameterized by θ.

Simple Multinomial Generative model

1/1 point (graded)

Consider a very simple multinomial model M to generate text in documents.

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

We would like to capture the fact in our generative model M that some words in W are

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