Application 3: Language Model for Text Mining

- More interested in the parameters of a language model than the accuracy of the language model itself
  - Parameter values estimated based on a text object or a set of text objects can be directly useful for a task (e.g., topics covered in the text data)
  - Parameter values may serve as a "model-based representation" of text objects to further support downstream applications (e.g., dimension reduction due to representing text by a set of topics rather than a set of words)
- Examples
  - discovery of frequent sequential patterns in text data by fitting an n-gram language model to the text data
  - Part-of-speech tagging & parsing with a SLM