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## EXAM PROFESSIONAL MACHINE LEARNING ENGINEER TOPIC 1 QUESTION 79 DISCUSSIO..

Actual exam question from Google's Professional Machine Learning Engineer

Question #: 79

Topic #: 1

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You need to train a natural language model to perform text classification on product descriptions that contain millions of examples and 100,000 unique words. You want to preprocess the words individually so that they can be fed into a recurrent neural network. What should you do?

- A. Create a hot-encoding of words, and feed the encodings into your model.
- B. Identify word embeddings from a pre-trained model, and use the embeddings in your model.
- C. Sort the words by frequency of occurrence, and use the frequencies as the encodings in your model.
- D. Assign a numerical value to each word from 1 to 100,000 and feed the values as inputs in your model.

Show Suggested Answer

by [LearnSodas](#) at Dec. 11, 2022, 5:03 p.m.

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M25 1 year, 5 months ago

**Selected Answer: B**

Went with B

   upvoted 1 times

  **John\_Pongthorn** 1 year, 9 months ago

**Selected Answer: B**


B

<https://developers.google.com/machine-learning/guides/text-classification/step-3>

<https://developers.google.com/machine-learning/guides/text-classification/step-4>

i



   upvoted 2 times

  **ares81** 1 year, 9 months ago

**Selected Answer: B**

Answer is B

   upvoted 1 times

  **egdiaa** 1 year, 10 months ago

Answer is B: According to Google Docs here: - <https://developers.google.com/machine-learning/guides/text-classification/> it is a Word Embedding case

   upvoted 4 times

  **hiromi** 1 year, 10 months ago

**Selected Answer: B**

B (I'm not sure)


- [https://developers.google.com/machine-learning/guides/text-classification/step-3#label\\_vectorization](https://developers.google.com/machine-learning/guides/text-classification/step-3#label_vectorization)

- <https://developers.google.com/machine-learning/guides/text-classification/step-4>

- <https://towardsai.net/p/deep-learning/text-classification-with-rnn>

- <https://towardsdatascience.com/pre-trained-word-embedding-for-text-classification-end2end-approach-5fbf5cd8aead>

   upvoted 2 times

  **hiromi** 1 year, 10 months ago

- <https://developers.google.com/machine-learning/crash-course/embeddings/translating-to-a-lower-dimensional-space>

   upvoted 1 times

  **LearnSodas** 1 year, 10 months ago

**Selected Answer: C**

Bag of words is a good practice to represent and feed text at a DNN

<https://machinelearningmastery.com/gentle-introduction-bag-words-model/>

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