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EXAM PROFESSIONAL MACHINE LEARNING ENGINEER TOPIC 1 QUESTION 84 DISCUSSIO..

Actual exam question from Google's Professional Machine Learning Engineer

Question #: 84

Topic #: 1

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Your company manages an application that aggregates news articles from many different online sources and sends them to users. You need to build a recommendation model that will suggest articles to readers that are similar to the articles they are currently reading. Which approach should you use?

- A. Create a collaborative filtering system that recommends articles to a user based on the user's past behavior.
- B. Encode all articles into vectors using word2vec, and build a model that returns articles based on vector similarity.
- C. Build a logistic regression model for each user that predicts whether an article should be recommended to a user.
- D. Manually label a few hundred articles, and then train an SVM classifier based on the manually classified articles that categorizes additional articles into their respective categories.

Show Suggested Answer

by  LearnSodas at Dec. 11, 2022, 7:30 p.m.

Comments

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gscharly 6 months, 3 weeks ago

Selected Answer: B

Went with B

upvoted 1 times

M25 1 year, 6 months ago

Selected Answer: B

Went with B

upvoted 1 times

TNT87 1 year, 6 months ago

Selected Answer: B

<https://cloud.google.com/blog/topics/developers-practitioners/meet-ais-multitool-vector-embeddings>

Answer B

upvoted 3 times

JamesDoe 1 year, 7 months ago

Selected Answer: B

Currently reading is the keyword here. Going to need B for that, A won't work since it would be based on e.g. all reading history and not the article currently being read.

upvoted 2 times

tavva_prudhvi 1 year, 7 months ago

Option A, creating a collaborative filtering system, may not be ideal for this use case because it relies on user behavior data, which may not be available or sufficient for new users or for users who have not interacted with the system much.

Option C, building a logistic regression model for each user, may not be scalable because it requires building a separate model for each user, which can become difficult to manage as the number of users increases.

Option D, manually labeling articles and training an SVM classifier, may not be as effective as the word2vec approach because it relies on manual labeling, which can be time-consuming and may not capture the full semantic meaning of the articles. Additionally, SVMs may not be as effective as neural network-based approaches like word2vec for capturing complex relationships between words and articles.

upvoted 2 times

JJJJim 1 year, 10 months ago

Selected Answer: B

word2vec can easily get similar articles, but the collaborative filter isn't sure well.

upvoted 1 times

hiromi 1 year, 10 months ago

Selected Answer: B

B

<https://towardsdatascience.com/recommending-news-articles-based-on-already-read-articles-627695221fe8>

upvoted 3 times

mil_spyro 1 year, 10 months ago

Selected Answer: B

Answer B

upvoted 1 times

ares81 1 year, 10 months ago

Selected Answer: B

Collaborative looks at the other users, knowledge-based at me. Answer B is the most knowledge based, among these.

upvoted 2 times

YangG 1 year, 10 months ago

Selected Answer: A

"similar to they are currently reading". it should be a collaborative filtering problem

upvoted 2 times

taxberg 1 year, 9 months ago

No, Collaborative filtering recommends articles other people read that are not necessarily similar to what the person is reading. These people are chosen on being similar to the person in question, not the article.

upvoted 3 times

LearnSodas 1 year, 10 months ago

Selected Answer: B

QUESTION

Answer B

   upvoted 2 times

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