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### Exam Professional Machine Learning Engineer All Questions

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## EXAM PROFESSIONAL MACHINE LEARNING ENGINEER TOPIC 1 QUESTION 24 DISCUSSIO..

Actual exam question from Google's Professional Machine Learning Engineer

Question #: 24

Topic #: 1

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You are an ML engineer at a global shoe store. You manage the ML models for the company's website. You are asked to build a model that will recommend new products to the user based on their purchase behavior and similarity with other users. What should you do?

- A. Build a classification model
- B. Build a knowledge-based filtering model
- C. Build a collaborative-based filtering model
- D. Build a regression model using the features as predictors

Show Suggested Answer

by [maartenalexander](#) at June 22, 2021, 10:41 a.m.

### Comments



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[maartenalexander](#) **Highly Voted** 3 years, 4 months ago

C. Collaborative filtering is about user similarity and product recommendations. Other models won't work

   upvoted 20 times

  **DaleR** Most Recent 1 week, 6 days ago

C. Collaborative filtering is a foundational model for building a recommendation system as the input dataset is simple and the embeddings are learned for you. Matrix factorization is simply the model that applies to the collaborative filtering.

   upvoted 1 times

  **PhilipKoku** 5 months ago

**Selected Answer: C**

C) Collaborative filtering model

   upvoted 1 times

  **Sum\_Sum** 11 months, 3 weeks ago

**Selected Answer: C**

Chat gPT:

Collaborative filtering models are specifically designed for recommendation systems. They work by analyzing the interactions and behaviors of users and items, then making predictions about what users will like based on similarities with other users. In this case, since you're looking at purchase behavior and user similarities, a collaborative filtering approach is well-suited to identify and recommend products that users with similar behaviors have liked or purchased.

Classification models (Option A) and regression models (Option D) are generally used for different types of predictive modeling tasks, not specifically for recommendations. A knowledge-based filtering model (Option B), while useful in recommendation systems, relies more on explicit knowledge about users and items, rather than on user interaction patterns and similarities, which seems to be the focus in this scenario.

   upvoted 2 times

  **10SR** 1 year, 2 months ago

C. Collaborative filtering is apt amongst the answers

   upvoted 1 times

  **M25** 1 year, 6 months ago

**Selected Answer: C**

Went with C

   upvoted 2 times

  **wish0035** 1 year, 10 months ago

**Selected Answer: C**

ans: C

   upvoted 1 times



  **hiromi** 1 year, 11 months ago

**Selected Answer: C**

C

<https://cloud.google.com/blog/topics/developers-practitioners/looking-build-recommendation-system-google-cloud-leverage-following-guidelines-identify-right-solution-you-part-i>


   upvoted 1 times

  **EFIGO** 1 year, 11 months ago

**Selected Answer: C**

This is a textbook application of collaborative filtering, C is the correct answer

   upvoted 1 times

  **GCP72** 2 years, 2 months ago

**Selected Answer: C**

Correct answer is "C"

   upvoted 1 times

  **Mohamed\_Mossad** 2 years, 4 months ago

**Selected Answer: C**

<https://developers.google.com/machine-learning/recommendation/collaborative/basics>

   upvoted 1 times

  **giaZ** 2 years, 8 months ago

**Selected Answer: C**

Definitely C



   upvoted 2 times

  **caohieu04** 2 years, 8 months ago

**Selected Answer: C**

Community vote

   upvoted 2 times

  **xiaoF** 2 years, 9 months ago  
should be C

   upvoted 2 times

  **mousseUwU** 3 years ago

C - [https://cloud.google.com/architecture/recommendations-using-machine-learning-on-compute-engine#filtering\\_the\\_data](https://cloud.google.com/architecture/recommendations-using-machine-learning-on-compute-engine#filtering_the_data)

   upvoted 4 times

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