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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

[All Professional Machine Learning Engineer Questions]

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 A maartenalexander at June 22, 2021, 10:41 a.m.

Comments

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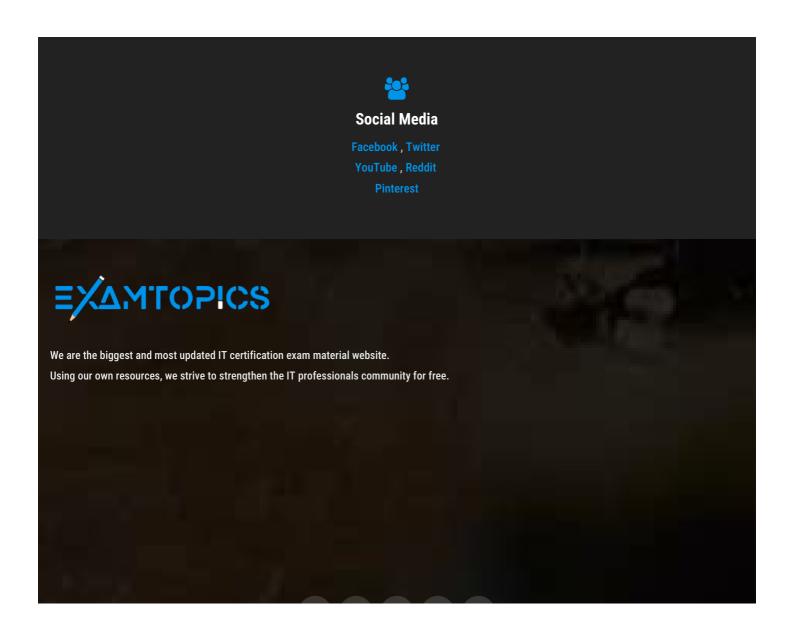
	C. Collaborative filtering is about user similarity and product recommendations. Other models won't work upvoted 20 times
	■ DaleR Most Recent ② 1 week, 6 days ago C. Collaborative filtering is a foundational model for building a recommendation system as the input dataset is simple and the embeddings are learned for you. Matrix factorization is simply the model that applies to the collaborative filtering. □ □ upvoted 1 times
	A 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. •• Pupvoted 2 times
	▲ 10SR 1 year, 2 months ago
	C. Collaborative filtering is apt amongst the answers
	▲ 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"
	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
	acaohieu04 2 years, 8 months ago



C - https://cloud.google.com/architecture/recommendations-using-machine-learning-on-compute-engine#filtering_the_data

Start Learning for free

upvoted 4 times





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