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 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

upvoted 4 times