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📄 **EXAM PROFESSIONAL MACHINE LEARNING ENGINEER TOPIC 1 QUESTION 57 DISCUSSIO..**

Actual exam question from Google's Professional Machine Learning Engineer
Question #: 57
Topic #: 1
[All Professional Machine Learning Engineer Questions]

Your company manages a video sharing website where users can watch and upload videos. You need to create an ML model to predict which newly uploaded videos will be the most popular so that those videos can be prioritized on your company's website. Which result should you use to determine whether the model is successful?

A. The model predicts videos as popular if the user who uploads them has over 10,000 likes.

B. The model predicts 97.5% of the most popular clickbait videos measured by number of clicks.

C. The model predicts 95% of the most popular videos measured by watch time within 30 days of being uploaded.

D. The Pearson correlation coefficient between the log-transformed number of views after 7 days and 30 days after publication is equal to 0.
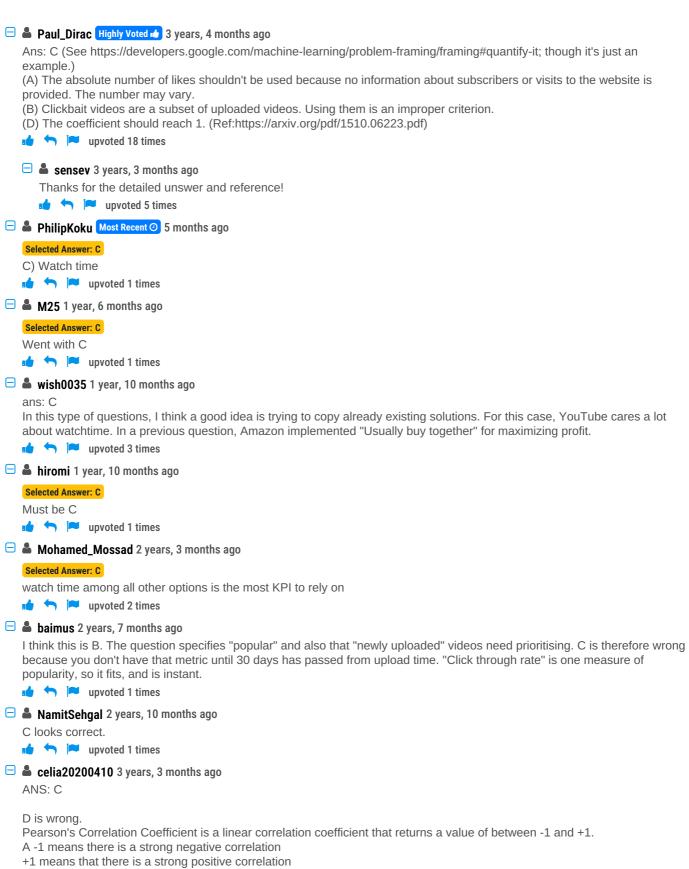
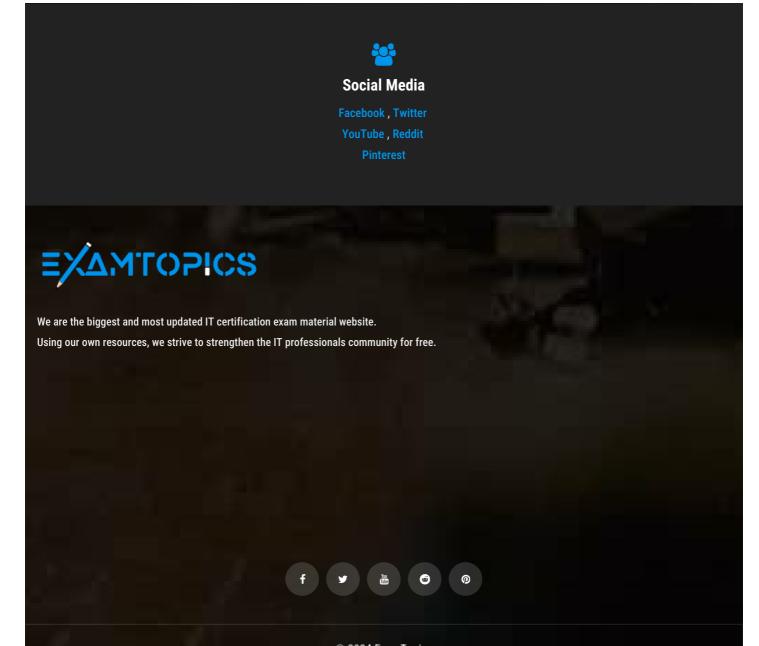**Show Suggested Answer**

by 👤 Paul_Dirac at *June 27, 2021, 3:32 p.m.*

Comments

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☐ 👤 **Paul_Dirac** `Highly Voted 👍` 3 years, 4 months ago

Ans: C (See https://developers.google.com/machine-learning/problem-framing/framing#quantify-it; though it's just an example.)

(A) The absolute number of likes shouldn't be used because no information about subscribers or visits to the website is provided. The number may vary.

(B) Clickbait videos are a subset of uploaded videos. Using them is an improper criterion.

(D) The coefficient should reach 1. (Ref:https://arxiv.org/pdf/1510.06223.pdf)

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   ☐ 👤 **sensev** 3 years, 3 months ago

   Thanks for the detailed unswer and reference!

   👍 ↩ 🚩 upvoted 5 times

☐ 👤 **PhilipKoku** `Most Recent ⊙` 5 months ago

Selected Answer: C

C) Watch time

👍 ↩ 🚩 upvoted 1 times

☐ 👤 **M25** 1 year, 6 months ago

Selected Answer: C

Went with C

👍 ↩ 🚩 upvoted 1 times

☐ 👤 **wish0035** 1 year, 10 months ago

ans: C

In this type of questions, I think a good idea is trying to copy already existing solutions. For this case, YouTube cares a lot about watchtime. In a previous question, Amazon implemented "Usually buy together" for maximizing profit.

👍 ↩ 🚩 upvoted 3 times

☐ 👤 **hiromi** 1 year, 10 months ago

Selected Answer: C

Must be C

👍 ↩ 🚩 upvoted 1 times

☐ 👤 **Mohamed_Mossad** 2 years, 3 months ago

Selected Answer: C

watch time among all other options is the most KPI to rely on

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☐ 👤 **baimus** 2 years, 7 months ago

I think this is B. The question specifies "popular" and also that "newly uploaded" videos need prioritising. C is therefore wrong because you don't have that metric until 30 days has passed from upload time. "Click through rate" is one measure of popularity, so it fits, and is instant.

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☐ 👤 **NamitSehgal** 2 years, 10 months ago

C looks correct.

👍 ↩ 🚩 upvoted 1 times

☐ 👤 **celia20200410** 3 years, 3 months ago

ANS: C

D is wrong.
Pearson's Correlation Coefficient is a linear correlation coefficient that returns a value of between -1 and +1.
A -1 means there is a strong negative correlation
+1 means that there is a strong positive correlation
0 means that there is no correlation

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