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EXAM PROFESSIONAL MACHINE LEARNING ENGINEER TOPIC 1 QUESTION 55 DISCUSSIO..

Actual exam question from Google's Professional Machine Learning Engineer

Question #: 55

Topic #: 1

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You recently joined a machine learning team that will soon release a new project. As a lead on the project, you are asked to determine the production readiness of the ML components. The team has already tested features and data, model development, and infrastructure. Which additional readiness check should you recommend to the team?

- A. Ensure that training is reproducible.
- B. Ensure that all hyperparameters are tuned.
- C. Ensure that model performance is monitored.
- D. Ensure that feature expectations are captured in the schema.

Show Suggested Answer

by [inder0007](#) at July 6, 2021, 11:24 a.m.

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[inder0007](#) **Highly Voted** 3 years, 4 months ago

I think it should be C

   upvoted 21 times

  **omar_bh** 3 years, 3 months ago



performance monitoring is a continuous effort that happens all time. but reproducibility makes more sense to be added to model QA

   upvoted 4 times

  **sensev** 3 years, 3 months ago

The question was not about model QA but production readiness, thus I think the answer is C because monitor model performance in production is important. As regard to A, I would argue it could fall under "model development", since reproducible training is already important during model development.

   upvoted 4 times

  **vivid_cucumber** 2 years, 11 months ago

To my understanding, I think A might be correct since model performance monitoring is happens "in production". but the question said the project "will soon release" which means right now is before launching, so to me testing the reproducible would make more sense. (I was confused about A and C for a long time)

reference:
- Testing reproducibility: <https://developers.google.com/machine-learning/testing-debugging/pipeline/deploying>
- Testing in Production: <https://developers.google.com/machine-learning/testing-debugging/pipeline/production>

   upvoted 7 times

  **simoncerda** 2 years, 11 months ago

I also think is C:

reference :

<https://static.googleusercontent.com/media/research.google.com/en//pubs/archive/aad9f93b86b7addfea4c419b9100c6cdd26cacea.pdf>

   upvoted 1 times

  **ralf_cc** Highly Voted  3 years, 3 months ago

A - important one before moving to the production

   upvoted 9 times

  **salsabilsf** 3 years, 3 months ago

Testing for Deploying Machine Learning Models:

- Test Model Updates with Reproducible Training

<https://developers.google.com/machine-learning/testing-debugging/pipeline/deploying>

   upvoted 5 times

  **PhilipKoku** Most Recent  5 months ago

Selected Answer: C

C) Model monitoring

   upvoted 1 times

  **SahandJ** 6 months ago

C is not a readiness check. Monitoring is a continuous effort. IMO A is the correct answer. If the training is not reproducible it's not ready for production. If any error happens, data drifts / skews, then there is no way to recreate the model.

This is a check BEFORE going to production. Once it's in production, then yes C is important.

   upvoted 1 times

  **fragkris** 11 months ago

Selected Answer: C

Monitoring is crucial. So - C


   upvoted 2 times

  **M25** 1 year, 6 months ago

Selected Answer: C

Went with C

   upvoted 1 times

  **e707** 1 year, 6 months ago

Selected Answer: C

I'll go with C.

Monitoring model performance is an important aspect of production readiness. It allows the team to detect and respond to changes in performance that may affect the quality of the model. The other options are also important, but they are more focused on the development phase of the project rather than the production phase.

   upvoted 1 times

  **John_Pongthorn** 1 year, 8 months ago

Selected Answer: C

Hey! all guys

A+B+D=The team has already tested features and data, model development, and infrastructure. we are about to go live with production.

Monitoring readiness is the last thing to account for.


It will be very ridiculous if you launch model as production regardless of how we will have about monitoring. you will launch model as production for while and will make plan to model performance monitoring later ??? you are too reckless.

Pls . Read it carefully <https://developers.google.com/machine-learning/testing-debugging/pipeline/production>

<https://developers.google.com/machine-learning/testing-debugging/pipeline/overview#what-is-an-ml-pipeline>.
You

Most guys prefer A : <https://developers.google.com/machine-learning/testing-debugging/pipeline/deploying> I think that it is all about model development prior to deploying .

   upvoted 4 times

  **enghabeth** 1 year, 9 months ago

Selected Answer: C

I think that your team ensure that all hyperparameters were turned yet when tested features... i think that it's more important that they ensure that model performance is monitored than training is reproducible for best practices.

<https://cloud.google.com/architecture/ml-on-gcp-best-practices>

   upvoted 1 times

  **John_Pongthorn** 1 year, 9 months ago



Selected Answer: C

Reproducible Training is more likely to be in the Deployment step in that it referred to the question "The team has already tested features and data, model development" but the question focuses on Production readiness

<https://developers.google.com/machine-learning/testing-debugging/pipeline/production>

Monitor section is part of this above link



   upvoted 1 times

  **ares81** 1 year, 10 months ago

Selected Answer: C



C, for me.

   upvoted 1 times

  **vakati** 1 year, 12 months ago

Selected Answer: C

It's mentioned that the team has already tested features and data, implying that data generation is reproducible. If you have to test features data has to be reproducible to compare model outputs. (<https://developers.google.com/machine-learning/data-prep/construct/sampling-splitting/randomization>). Hence C makes more sense

   upvoted 2 times

  **bL357A** 2 years, 2 months ago

Selected Answer: C

<https://cloud.google.com/ai-platform/docs/ml-solutions-overview>

   upvoted 1 times

  **u_phoria** 2 years, 4 months ago

Selected Answer: C

With the specific focus on "production readiness" as stated, I'd pick C above the others.

   upvoted 2 times

  **KD1988** 2 years, 4 months ago

I think it's C.

A is related to infrastructure, B is related to model development and D is related to Data and features. It clearly mentioned that team has already tested for model development, data and features and infrastructure.

   upvoted 1 times


  **Mohamed_Mossad** 2 years, 5 months ago

Selected Answer: A

"production readiness" means that we are still in dev-test phase , and "performance monitoring" happens in production , and what if monitoring is applied but the model re-train is difficult , so "A" is the best answer

   upvoted 1 times

  **abe0000** 2 years, 8 months ago

 **abcccccc** 2 years, 6 months ago

A makes more sense than C.

   upvoted 2 times

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