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Exam Professional Machine Learning Engineer All Questions

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EXAM PROFESSIONAL MACHINE LEARNING ENGINEER TOPIC 1 QUESTION 21 DISCUSSIO..

Actual exam question from Google's Professional Machine Learning Engineer

Question #: 21

Topic #: 1

[All Professional Machine Learning Engineer Questions]

You have deployed multiple versions of an image classification model on Al Platform. You want to monitor the performance of the model versions over time. How should you perform this comparison?

- A. Compare the loss performance for each model on a held-out dataset.
- B. Compare the loss performance for each model on the validation data.
- C. Compare the receiver operating characteristic (ROC) curve for each model using the What-If Tool.
- D. Compare the mean average precision across the models using the Continuous Evaluation feature.

Show Suggested Answer

by \(\text{\text{\text{older}0007}}\) at \(June 7, 2021, 9:14 \, p.m. \)

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□ **å** chohan Highly Voted • 3 years, 4 months ago

Answer is D

- letter 15 2

	upvoted 13 times
	▲ Danny2021 Highly Voted 3 years, 1 month ago
	D is correct. Choose the feature / capability GCP provides is always a good bet. :)
	upvoted 6 times
	å jkkim_jt Most Recent ② 2 days, 22 hours ago
	[B] Compare the loss performance for each model on the validation data.
	> Not validation data but testing data
	■ upvoted 1 times
	bludw 3 months, 3 weeks ago
	Selected Answer: A
	The answer is A. I am not sure why people choose B vs A as you may overfit your validation set. And you are using your held
	out set really rare == no option to overfit. •• P upvoted 2 times
	■ Wookjae 4 months, 2 weeks ago
_	Continuous Evaluation feature is deprecated.
	upvoted 1 times
	□ ♣ Goosemoose 4 months, 2 weeks ago
	so is the what if tool
	upvoted 1 times
	Goosemoose 4 months, 2 weeks ago
	so it looks like that B is the best answer
	upvoted 2 times
	📤 saadci 4 months, 3 weeks ago
	Selected Answer: B
	In the official study guide, this was the explanation given for answer B: "The image classification model is a deep learning model. You minimize the loss of deep learning models to get the best
	model. So comparing loss performance for each model on validation data is the correct answer."
	upvoted 3 times
	Sum_Sum 11 months, 1 week ago
	Selected Answer: D
	D - because you are using a Google provided feature. remember in this exam its important to always choose the google services over anything else
	provided 4 times
	▲ claude2046 1 year ago
	mAP is for object detection, so the answer should be B
	■ upvoted 1 times
	Liting 1 year, 3 months ago
	Selected Answer: D
	Went with D, using continuous evaluation feature seems correct to me.
	upvoted 1 times
	SamuelTsch 1 year, 3 months ago
	Selected Answer: D I choose by myself D. But as I read the post here https://www.v7labs.com/blog/mean-average-precision, I was not sure about
	D.
	It wrote mAP is commonly used for object detection or instance segmentation tasks.
	Validation Dataset in GCP context: not trained dataset and not seen dataset
	Voyager2 1 year, 4 months ago
_	Selected Answer: D
	D. Compare the mean average precision across the models using the Continuous Evaluation feature
	https://cloud.google.com/vertex-ai/docs/evaluation/introduction
	Vertex AI provides model evaluation metrics, such as precision and recall, to help you determine the performance of your

Vertex Al supports evaluation of the following model types: AuPRC: The area under the precision-recall (PR) curve, als

AuPRC: The area under the precision-recall (PR) curve, also referred to as average precision. This value ranges from zero to one, where a higher value indicates a higher-quality model.

□ M25 1 year, 5 months ago

Selected Answer: D

Went with D

□ □ □ upvoted 1 times

□ Lucaluca1982 1 year, 6 months ago

I go for B. Option D is good when we are already in production

Selected Answer: B

upvoted 1 times

🖃 🏜 prakashkumar1234 1 year, 7 months ago

o monitor the performance of the model versions over time, you should compare the loss performance for each model on the validation data. Therefore, option B is the correct answer.

📩 🤚 🎮 upvoted 1 times

■ Jarek7 1 year, 5 months ago

Please, How? B is not monitoring. It is a validation. The definition of monitoring states: "observe and check the progress or quality of (something) over a period of time"
So it is a continuous process. Each option A,B,C are just one time check, not monitoring.

👍 🦴 🃜 upvoted 3 times

🗖 🚨 Fatiy 1 year, 7 months ago

Selected Answer: B

The best option to monitor the performance of multiple versions of an image classification model on Al Platform over time is to compare the loss performance for each model on the validation data.

Option B is the best approach because comparing the loss performance of each model on the validation data is a common method to monitor machine learning model performance over time. The validation data is a subset of the data that is not used for model training, but is used to evaluate its performance during training and to compare different versions of the model. By comparing the loss performance of each model on the same validation data, you can determine which version of the model has better performance.

👍 🤚 📂 upvoted 4 times

🖃 🏜 enghabeth 1 year, 8 months ago

Selected Answer: D

If you have multiple model versions in a single model and have created an evaluation job for each one, you can view a chart comparing the mean average precision of the model versions over time

upvoted 1 times

auilhermebutzke 1 year, 8 months ago

Guys, I not sure about the answer D ... And maybe you could help me in my arguments.

I think choose loss to compare the model performance is better than see for metrics. For example, when can build an image model classification that has good precision metrics, because the class in unbalanced, but the loss could be terrible because of kind of loss choose that penalizes classes.

so, losses are better than metrics to available models, and the answer is in A or B.

I thought that the A could be the answer because I see validation as a part of the training process. So, If we want to test the model performance over time, we have to use new data, which I suppose to be the held-out data.

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