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Exam Professional Machine Learning Engineer All Questions

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EXAM PROFESSIONAL MACHINE LEARNING ENGINEER TOPIC 1 QUESTION 14 DISCUSSIO..

Actual exam question from Google's Professional Machine Learning Engineer

Question #: 14

Topic #: 1

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You built and manage a production system that is responsible for predicting sales numbers. Model accuracy is crucial, because the production model is required to keep up with market changes. Since being deployed to production, the model hasn't changed; however the accuracy of the model has steadily deteriorated.

What issue is most likely causing the steady decline in model accuracy?

- A. Poor data quality
- B. Lack of model retraining
- C. Too few layers in the model for capturing information
- D. Incorrect data split ratio during model training, evaluation, validation, and test

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by  [esuaaaa](#) at June 5, 2021, 11:56 a.m.

Comments

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- esuaaaa Highly Voted 3 years, 4 months ago
B. Retraining is needed as the market is changing.
upvoted 30 times
- sensev 3 years, 3 months ago
I also think it is B - who is giving the "correct" answers to the questions? I feel like 4 out of 5 of them are incorrect.
upvoted 11 times
- NickHapton Highly Voted 2 years, 10 months ago
the biggest issue of this website is `all correct answers` are wrong
upvoted 16 times
- desertlotus1211 2 days, 1 hour ago
So what do you suggest the answer is ?
upvoted 1 times
- ZhengWeiNg Most Recent 1 month, 2 weeks ago
Selected Answer: B
Model is not updated to current sales trends.
upvoted 1 times
- jsalvasoler 2 months, 2 weeks ago
Selected Answer: B
B naturally
upvoted 1 times
- PhilipKoku 4 months, 2 weeks ago
Selected Answer: B
B) You require model monitoring to identify changes and at the right time retrain the model with new data to avoid model drift.
upvoted 2 times
- Azhar10 6 months, 3 weeks ago
Selected Answer: B
The market can be dynamic, Sales trends, customer preferences, and even competitor strategies might evolve over time but our model hasn't changed since the deployment so our model can adapt with these changes by retraining only
Degradation Over Time: Without retraining to adapt to these changes, the model's predictions become less accurate as the real world diverges from the data it was trained on.
upvoted 1 times
- 97a158e 9 months ago
As the consistent changes in the Market data, the Model in Production should regularly retrain for better results. Option B is the right choice
upvoted 1 times
- fragkris 10 months, 3 weeks ago
Selected Answer: B
Keeping the model up to date is crucial. So - B.
upvoted 1 times
- Sum_Sum 11 months, 1 week ago
Selected Answer: B
B because the environment is changing and the model only captures past performance
upvoted 1 times
- harithacML 1 year, 3 months ago
Selected Answer: B
Situation : model trained long before.
Q : why accuracy of the model has steadily deteriorated.

A. Poor data quality : Model performance depends on trained model only. Quality issue should be taken care by pipeline and it does not much affect the model to cause a performance slow down over time
B. Lack of model retraining : Very obvious
C. Too few layers in the model for capturing information : If so model would not have been deployed at first stage due to low performance on unseen data
D. Incorrect data split ratio during model training, evaluation, validation, and test : This is relevant only at training when model deployed at first place, We have way passed that. Not the reason.
upvoted 2 times

🗨️ 👤 **M25** 1 year, 5 months ago

Selected Answer: B

Went with B

👍 ↩️ 🚩 upvoted 1 times

🗨️ 👤 **niketd** 1 year, 7 months ago

Selected Answer: B

B is correct. Model needs to keep up with the market changes, implying that the underlying data distribution would be changing as well. Hence retrain the model.

👍 ↩️ 🚩 upvoted 1 times

🗨️ 👤 **tavva_prudhvi** 1 year, 7 months ago

Selected Answer: B

The questions says the model is required to keep up with market changes, hence retraining needed.

👍 ↩️ 🚩 upvoted 1 times

🗨️ 👤 **Ade_jr** 1 year, 10 months ago

B is the correct answer

👍 ↩️ 🚩 upvoted 1 times

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

Selected Answer: B

ANS: B

👍 ↩️ 🚩 upvoted 1 times

🗨️ 👤 **EFIGO** 1 year, 11 months ago

Selected Answer: B

Data distribution changes over time and so should do the model, so B is the correct answer

👍 ↩️ 🚩 upvoted 1 times

🗨️ 👤 **GCP72** 2 years, 2 months ago

Selected Answer: B

Correct answer is "B"

👍 ↩️ 🚩 upvoted 1 times

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