

✔ Congratulations! You passed!

Grade received 93.75% To pass 80% or higher

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Model Monitoring and Logging

Total points 4

1. What issue arises when models are automatically trained on data collected during production?

1 / 1 point

- ☐ Data Skews
- ☐ Staleness
- ☒ Negative Feedback Loops



Correct

Nailed it! Data collected in production could be biased or corrupted in some way. If a model is automatically trained on such data, it will perform poorly as a result.

2. Is observability more attainable in modern systems?

1 / 1 point

- ☒ No, observability gets more challenging when you consider modern systems.
- ☐ Yes, modern systems allow simple monitoring.



Correct

Absolutely! Observability becomes a more complex problem when you consider modern systems, which means that you often need to rely on vendor monitoring systems to collect and sometimes aggregate data.

3. In the realm of ML engineering, the operational concerns include monitoring system performance. What measures do we use for doing so? (Select all that apply)

0.75 / 1 point

- ☐ HTTP request reception
- ☒ IO/memory/disk utilization



Correct

Right! You need to keep a close eye on the system performance, including the usage of CPU, memory, disk, and network I/O. Analyzing these metrics is very significant for ensuring that the machine learning service is fully operational.

- ☒ Uptime



Correct

Correct! Uptime is a measure of computer operating system reliability or stability. It is expressed as the percentage of time a computer can be left unattended without crashing or needing to be rebooted for administrative or maintenance purposes.

- ☐ Latency

You didn't select all the correct answers

4. What are the advantages of Logging for ML Monitoring? (Select all that apply)

1 / 1 point

- ☒ Logs provide valuable insight.



Correct

Right on track! Event logs provide valuable insight along with context, adding detail that averages and percentiles don't surface. However, you must be careful to provide the right amount of context without obscuring the really valuable information in too much extraneous detail.

- ☒ Logs focus on specific events.



Correct

You've figured it out! While metrics show the trends of a service or an application, logs focus on specific events, including both log messages printed from your application as well as warnings, errors, or debug messages which are generated automatically.

- ☐ Log aggregation is cheap.

- ☒ Logs are easy to generate.



Correct

Excellent! Logs are very easy to generate, since they are just strings, blobs of JSON, or typed key-value pairs.