✅ **Congratulations! You passed!**

Grade received 100%   **To pass** 80% or higher

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MLOps Methodology

Total points 4

1. What determines the maturity of the MLOps process?   `1 / 1 point`

○ The accuracy of the deployed model.

○ The technical scenario for MLOps implementation.

○ The standard pattern for MLOps building.

◉ The level of automation of ML pipelines.

> ✓ **Correct**
> Great job! Fundamentally, the level of automation of the Data Collection, Modeling, Deployment, and Maintenance systems determines the maturity of the MLOps process.

2. True Or False: At the basic level of maturity, or level 0, tracking or logging are required to detect model performance degradation and other model behavioral drifts.   `1 / 1 point`

◉ False

○ True

> ✓ **Correct**
> Exactly! Level 0 is concerned only with deploying the trained model as a prediction service (for example, a microservice with a REST API). This manual, data-scientist-driven process doesn't track predictions and might be sufficient when models are rarely changed or retrained.

3. What steps do you need to introduce into the ML pipeline to move towards MLOps maturity level one? (Select all that apply)   `1 / 1 point`

☑ Automated Model Validation

> ✓ **Correct**
> Well done! Model Validation makes sure that the new model performs better than the current one before promoting it to production. Also, Model Validation ensures that model performance is consistent on various segments of the data.

☐ Dependently Typed Programming

☐ Automated Theorem Proving

☑ Automated Data Validation

> ✓ **Correct**
> That's right! Automated data validation is necessary to decide whether your model should be retrained or the execution of the pipeline must stop. This decision is automatically made only if the data is deemed valid.

4. In case of an interruption, what key component of the pipeline allows you to resume execution seamlessly?   `1 / 1 point`

◉ Metadata Store

○ Trigger

○ Feature Store

○ Models Registry

> ✓ **Correct**
> Nailed it! The metadata store tracks each pipeline execution, so you can rely on pointers to the artifacts produced at each step, like the location of prepared data, validation anomalies, or computed statistics, to resume execution in case of an interruption.