

1. Los conjuntos de datos estáticos se utilizan para el modelado de ML de producción.

1 / 1 punto

- ☒ Falso
- ☐ Verdadero

✓ **Correcto**

¡Eso es todo! Se utilizan datos dinámicos del mundo real.

2. En producción ML, la prioridad de diseño es el entrenamiento rápido.

1 / 1 punto

- ☒ No
- ☐ Sí

✓ **Correcto**

¡Correcto! El entrenamiento rápido y la elección de un algoritmo de alto rendimiento son las prioridades de diseño para prototipos o ML de investigación.

3. Developers adhere to modern software development to produce low-maintenance software, and to address project evolution. Select all the key aspects of modern software development (Check all that apply):

1 / 1 punto

☒ Testability

✓ **Correcto**

Yes! The data entering the system is continuously monitored and tested.

☒ Monitoring

✓ **Correcto**

Right on! The deployed model's performance is properly evaluated.

☒ Best practices

✓ **Correcto**

Perfect! Software development best practices must be resolved.

☐ Fast Training

4. Model-performance needs to be continuously monitored, and new data, ingested and re-trained.

1 / 1 punto

☒ Yes

☐ No

✓ **Correcto**

Good job! After deployment, it's necessary to continuously evaluate the model's performance.

5. ML pipeline workflows are almost always DAGs.

1 / 1 punto

☒ True

☐ False

✓ **Correcto**

Well done! The components of an ML pipeline are scheduled based on dependencies defined by a DAG.

6. TensorFlow Extended (TFX) is an end-to-end platform for deploying production ML pipelines.

1 / 1 punto

☐ No

☒ Yes

✓ **Correcto**

You got it right! TFX is used to build and manage ML pipelines in production.

7. Production machine learning combines which two key disciplines?

1 / 1 punto

☐ Feature selection and engineering

☒ Modern software development

✓ **Correcto**

Keep it up! Well-designed software that adheres to best practices is key for the success of a production grade machine learning system.

☒ Machine learning development

✓ **Correcto**

Nice going! ML Development focuses on specific issues related with data and model predictions quality.

☐ Software testing

8. What are the unique challenges to overcome in a production-grade ML system? (Check all that apply)

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☒ Handling continuously changing data.

✓ **Correcto**

Indeed! Data will change over the life cycle of a production system, which can harm its performance.

☒ Optimizing computational resources and costs.

✓ **Correcto**

Absolutely! You want your ML system to be as frugal as possible.

☐ Deploying the model to serve requests.

☒ Building integrated ML systems.

✓ **Correcto**

Very well! ML systems perform all operations starting from ingesting the data into the system to deployment.

☒ Continually operating while in production.

✓ **Correcto**

Right on track! ML systems need to be flexible to operate while the system stages or modules are being changed or redesigned.

- ☐ Training the model on real world data.
- ☐ Assessing model performance.

9. Los desafíos del aprendizaje automático de grado de producción se abordan mediante la implementación de un concepto importante:

1 / 1 punto

- ☒ Canalizaciones de aprendizaje automático
- ☐ Gráficos acíclicos dirigidos (DAG)
- ☐ Orquestadores
- ☐ Tensorflow extendido (TFX)

✓ **Correcto**

¡Correcto! Las canalizaciones de ML brindan soporte para automatizar, monitorear y mantener un modelo a medida que continúa entrenándolo durante su vida útil.

10. TensorFlow Lite es un marco de aprendizaje profundo para implementar canalizaciones TFX en:

1 / 1 punto

- ☒ Dispositivos móviles
- ☐ navegador web
- ☐ Servidores

✓ **Correcto**

¡Eso es todo! Tensorflow Lite es la herramienta para implementar canalizaciones TFX en dispositivos móviles e IoT.