Congratulations! You passed!

Grade received 97.14% **To pass** 80% or higher

Go to next item

1. Static datasets are used for production ML modeling. **1 / 1 point**

- (●) False
- ( ) True

Correct
That's it! Dynamic real-world data is used.

2. In production ML, the design priority is fast training.

1 / 1 point

- ○ Yes
- ◉ No

Correct

Correct! Fast training and choosing a high-performance algorithm are the design priorities for prototypes or research ML.

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 point

- [x] Testability

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

- [x] Best practices

Correct
Perfect! Software development best practices must be resolved.

- [ ] Fast Training
- [x] Monitoring

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

4. Model-performance needs to be continuously monitored, and new data, ingested and re-trained. **1 / 1 point**

- (●) Yes
- ( ) No

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

5. ML pipeline workflows are almost always DAGs.

1 / 1 point

- (●) True
- ( ) False

Correct

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 point

- (●) Yes
- ( ) No

Correct

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 point**

- [ ] Software testing
- [x] Modern software development

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

- [x] Machine learning development

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

- [ ] Feature selection and engineering

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

0.7142857142857143 / 1 point

- [ ] Assessing model performance.
- [ ] Training the model on real world data.
- [ ] Continually operating while in production.
- [x] Handling continuously changing data.

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

- [x] Building integrated ML systems.

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

- [ ] Optimizing computational resources and costs.
- [ ] Deploying the model to serve requests.

You didn't select all the correct answers

9. **Production grade machine learning** challenges are addressed by implementing an important concept: **1 / 1 point**

- (●) Machine learning pipelines
- ( ) Directed Acyclic Graphs (DAGs)
- ( ) Orchestrators
- ( ) Tensorflow Extended (TFX)

Correct
Spot on! ML pipelines provide support for automating, monitoring and maintaining a model as you continue to train it over its lifetime.

10. TensorFlow Lite is a deep learning framework to deploy TFX pipelines into:

1 / 1 point

- (•) Mobile devices
- ( ) Web browser
- ( ) Servers

Correct

That's it! Tensorflow Lite is the tool for deploying TFX pipeline into mobile and IoT devices.