Congratulations! You passed!

 $\textbf{Grade received} \ 100\% \quad \textbf{To pass} \ 80\% \ \text{or higher}$

Go to next item

Intro to MLEP

Total points 10					
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			
	No No				
	○ Yes				
	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
	✓ Best practices	
	Correct Perfect! Software development best practices must be resolved.	
	✓ Monitoring	
	Correct Right on! The deployed model's performance is properly evaluated.	
	☐ Fast Training	
	✓ Testability	
	Correct Yes! The data entering the system is continuously monitored and tested.	
4.	Model-performance needs to be continuously monitored, and new data, ingested and re-trained.	1/1 point
	Yes	2/20000
	○ 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 create and manage a production line.	
7.	Production machine learning combines which two key disciplines?	1/1 point
	Feature selection and engineering	
	✓ 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.	
	Machine learning development	
	Correct Nice going! ML Development focuses on specific issues related with data and model predictions quality.	
	Software testing	

What are the unique challenges to overcome in a production-grade ML system? (Check all that apply)				
Training the model on real world data.				
Assessing model performance.				
Continually operating while in production.				
Correct Right on track! ML systems need to be flexible to operate while the system stages or modules are being changed or redesigned.				
Deploying the model to serve requests.				
☑ Building integrated ML systems.				
Correct Very well! ML systems perform all operations starting from ingesting the data into the system to deployment.				
✓ Handling continuously changing data.				
Correct Indeed! Data will change over the life cycle of a production system, which can harm its performance.				
Optimizing computational resources and costs.				
Correct Absolutely! You want your ML system to be as frugal as possible.				

1/1 point

8.

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