Congratulations! You passed!

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

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lr	ntro to MLEP	
Tot	tal 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	
	○ 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.	
	✓ Testability	
	Correct Yes! The data entering the system is continuously monitored and tested.	
	☐ Fast Training	
	✓ 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

	○ No	
	 Correct Good job! After deployment, it's necessary to continuously evaluate the model's performance. 	
5.	ML pipeline workflows are almost always DAGs.	1/1point
	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
	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	
	Feature selection and engineering	
8.	What are the unique challenges to overcome in a production-grade ML system? (Check all that apply)	1 / 1 point
	Assessing model performance.	
	Optimizing computational resources and costs.	
	Correct Absolutely! You want your ML system to be as frugal as possible.	
	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.	
		Training the model on real world data.	
	~	Building integrated ML systems.	
	9	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.	
		Deploying the model to serve requests.	
9.	Pro	duction grade machine learning challenges are addressed by implementing an important concept:	1/1 point
	•	Machine learning pipelines	
	0	Directed Acyclic Graphs (DAGs)	
	0	Orchestrators	
	0	Tensorflow Extended (TFX)	
	0	Correct Spot on! ML pipelines provide support for automating, monitoring and maintaining a model as you continue to train it over its lifetime.	
10	. Ten	sorFlow Lite is a deep learning framework to deploy TFX pipelines into:	1/1 point
	•	Mobile devices	
	0	Web browser	
	0	Servers	
	Q	Correct That's it! Tensorflow Lite is the tool for deploying TFX pipeline into mobile and IoT devices.	