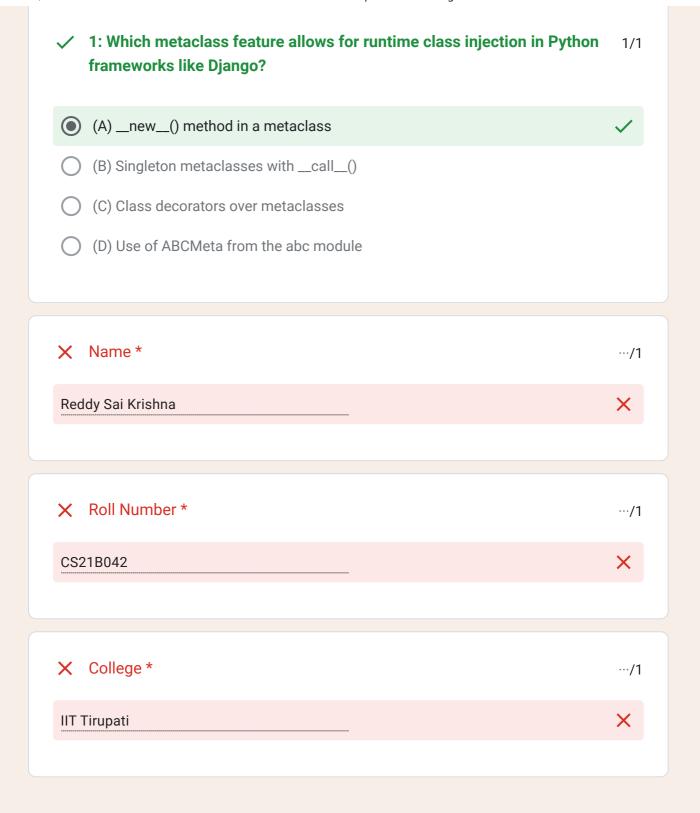


Wishing You All The Best

15 of 33 points



garbage collection ce counting nup efficiently	✓
nup	
efficiently	
nt loop	
per exception handling	X
coroutine	
r	llock in an asyncio event loop caused by nested coroutines? Int loop g functions er exception handling

×	4: Which of the following techniques improves memory usage when dealing with large NumPy arrays?	0/1
0	(A) Using memory-mapped files via numpy.memmap()	
0	(B) Storing arrays as lists before processing	
•	(C) Serializing arrays using pickle	×
0	(D) Reducing precision by converting to strings	
Corr	ect answer	
•	(A) Using memory-mapped files via numpy.memmap()	
<u> </u>	5: Why is backdoor adjustment crucial in causal inference models?	1/1
·		
0	(A) It removes biases from the target variable	
	(A) It removes biases from the target variable (B) It controls for confounding variables	✓
		✓
OOO	(B) It controls for confounding variables	✓
OOO	(B) It controls for confounding variables (C) It adjusts hyperparameters automatically	✓
	(B) It controls for confounding variables (C) It adjusts hyperparameters automatically	1/1
	(B) It controls for confounding variables (C) It adjusts hyperparameters automatically (D) It optimizes convergence speed in gradient descent 6: Which of the following techniques is most effective for forecasting	1/1
	(B) It controls for confounding variables (C) It adjusts hyperparameters automatically (D) It optimizes convergence speed in gradient descent 6: Which of the following techniques is most effective for forecasting non-stationary time series?	1/1
	(B) It controls for confounding variables (C) It adjusts hyperparameters automatically (D) It optimizes convergence speed in gradient descent 6: Which of the following techniques is most effective for forecasting non-stationary time series? (A) Fourier transforms	1/1

	7: Which method is most effective at identifying adversarial inputs in neural networks?	0/1
•	(A) Using gradient-based activation maximization	×
0	(B) Measuring input feature entropy	
0	(C) Training with dropout layers during inference	
0	(D) Applying defense distillation on the outputs	
•	(D) Applying defense distillation on the outputs	
✓	8: What problem does Layer-Wise Relevance Propagation solve?	1/1
✓ ③	8: What problem does Layer-Wise Relevance Propagation solve? (A) Explaining model predictions at the feature level	1/1
<!--</td--><td></td><td>1/1</td>		1/1
<!--</td--><td>(A) Explaining model predictions at the feature level</td><td>1/1</td>	(A) Explaining model predictions at the feature level	1/1

×	9: What is the most challenging aspect of continuous training in MLOps pipelines?	0/1
\bigcirc	(A) Monitoring training latency	
\bigcirc	(B) Handling concept drift without retraining	
•	(C) Automating hyperparameter optimization	×
0	(D) Reducing data leakage in production environments	
Corr	ect answer	
•	(B) Handling concept drift without retraining	
✓	10: What is the biggest challenge in implementing the BB84 quantum key distribution protocol over long distances?	1/1
	(A) Managing entanglement loss in noisy quantum channels	/
O	(A) Managing entanglement loss in noisy quantum channels (B) Detecting man-in-the-middle attacks	✓
OO		/
OO	(B) Detecting man-in-the-middle attacks	~
	(B) Detecting man-in-the-middle attacks (C) Preventing key exchange failures at the classical handshake step	/
	(B) Detecting man-in-the-middle attacks (C) Preventing key exchange failures at the classical handshake step	1/1
	(B) Detecting man-in-the-middle attacks (C) Preventing key exchange failures at the classical handshake step (D) Increasing the bit rate beyond classical limits 11: Python – Data Streaming with Kafka Which library is used to consume and process streaming data from Kafka	1/1
	(B) Detecting man-in-the-middle attacks (C) Preventing key exchange failures at the classical handshake step (D) Increasing the bit rate beyond classical limits 11: Python – Data Streaming with Kafka Which library is used to consume and process streaming data from Kafka in Python?	1/1
	(B) Detecting man-in-the-middle attacks (C) Preventing key exchange failures at the classical handshake step (D) Increasing the bit rate beyond classical limits 11: Python – Data Streaming with Kafka Which library is used to consume and process streaming data from Kafka in Python? MA) PyKafka	1/1

/	12: What is the primary role of CI/CD pipelines in automation?	1/1
0	NA) Automate model training in machine learning projects	
0	MB) Manage software dependencies across environments	
•	NC) Automate testing, building, and deployment processes	✓
0	ND) Ensure that microservices remain consistent across servers	
×	13: Which Python module can be used to detect memory leaks and cycli references?	c 0/1
0	MA) gc	
•	MB) psutil	X
0	\[\text{C}\) memory_profiler	
0	MD) objgraph	
orre	ect answer	
•		
×	14: How do you create a decorator with arguments in Python?	0/1
•	MA) Nest a decorator function inside another function	×
	MB) Use functools.wraps() on the outer function	
0	NC) Return a closure that accepts both arguments and the decorated function	
0	NC) Return a closure that accepts both arguments and the decorated function ND) Use @staticmethod on the decorated function	
O		

15: What is a common solution to handle data skew in distributed data pipelines?	1/1
MA) Broadcasting smaller datasets	
B) Partitioning based on skewed keys	✓
O Increasing the number of reducers	
Applying lazy evaluation during transformations	
between blockchain networks?	
Synchronizing consensus mechanisms	
	×
○ □B) Preventing Sybil attacks	×
MB) Preventing Sybil attacksMC) Establishing trust without third parties	×
	×
©C) Establishing trust without third parties	×

×	17: Which of the following is the primary use of Azure Functions in Python-based cloud automation?	0/1
\bigcirc	MA) Real-time data processing in IoT applications	
0	MB) Training deep learning models at scale	
•	NC) Automating Kubernetes deployments	×
0	ND) Managing infrastructure-as-code	
Corr	ect answer	
•	MA) Real-time data processing in IoT applications	
✓	18: Why might you use multiprocessing instead of threading in Python?	1/1
0	MA) Multiprocessing allows sharing memory across threads	
•	MB) Multiprocessing avoids the Global Interpreter Lock (GIL)	✓
\bigcirc	NC) Threading is more efficient for CPU-bound tasks	
0	ND) Threading provides better scalability across CPUs	
×	19: Which of the following is a major challenge in AutoML pipelines?	0/1
×	19: Which of the following is a major challenge in AutoML pipelines? MA) Hyperparameter tuning	0/1
	MA) Hyperparameter tuning	
	MA) Hyperparameter tuning MB) Automating data cleaning processes	
OOO	MA) Hyperparameter tuning MB) Automating data cleaning processes MC) Model interpretability and fairness	

× 20: Which of the following is an example of post-hoc explainability?	0/1
MA) Interpretable models	×
○ □ □ B) Feature attribution methods like SHAP	
Neural architecture search	
Correct answer	
B) I catalo attribution metrodo inte or i/ ii	
✓ 21: What is the main advantage of using Horovod over standard TensorFlow for distributed training?	1/1
✓ 21: What is the main advantage of using Horovod over standard	1/1
✓ 21: What is the main advantage of using Horovod over standard TensorFlow for distributed training?	1/1
 ✓ 21: What is the main advantage of using Horovod over standard TensorFlow for distributed training? ☑ MA) Horovod improves gradient aggregation efficiency with Ring-AllReduce 	1/1
 ✓ 21: What is the main advantage of using Horovod over standard TensorFlow for distributed training? ☑ ☑A) Horovod improves gradient aggregation efficiency with Ring-AllReduce ☑ ☑B) It eliminates the need for gradient synchronization 	1/1

×	22: How would you integrate Selenium with an asyncio event loop for concurrent browser automation?	0/1
0	MA) Use `async with` to manage Selenium drivers	
0	MB) Wrap blocking Selenium calls using `run_in_executor()`	
•	MC) Run Selenium scripts inside Celery tasks	X
0	MD) Use the `ThreadPoolExecutor` from `asyncio`	
Corr	ect answer	
Corr	ect answer MB) Wrap blocking Selenium calls using `run_in_executor()`	
		1/1
	MB) Wrap blocking Selenium calls using `run_in_executor()`23: Which robust training method is most effective against adversarial	1/1
	MB) Wrap blocking Selenium calls using `run_in_executor()` 23: Which robust training method is most effective against adversarial attacks on GANs?	1/1
	MB) Wrap blocking Selenium calls using `run_in_executor()` 23: Which robust training method is most effective against adversarial attacks on GANs? MA) Wasserstein loss with gradient penalty	1/1

×	24: Why are StatefulSets preferred over Deployments in Kubernetes for certain applications?	0/
•	MA) They manage ephemeral services efficiently	×
\bigcirc	MB) They guarantee consistent network identities	
\bigcirc	MC) They ensure better load balancing across pods	
\bigcirc	MD) They automatically rescale during failures	
Orre	ect answer	
COIT		
•	B) They guarantee consistent network identities25: Which method is best suited for handling highly imbalanced datasets	s ? 0,
•	25: Which method is best suited for handling highly imbalanced datasets	? 0/
•		? 0/
(a)	25: Which method is best suited for handling highly imbalanced datasets MA) Stratified sampling	*? O/
(a)	25: Which method is best suited for handling highly imbalanced datasets MA) Stratified sampling MB) Synthetic Minority Oversampling (SMOTE)	*? 0/
<!--</td--><td>25: Which method is best suited for handling highly imbalanced datasets MA) Stratified sampling MB) Synthetic Minority Oversampling (SMOTE) MC) Grid search</td><td>*? O/</td>	25: Which method is best suited for handling highly imbalanced datasets MA) Stratified sampling MB) Synthetic Minority Oversampling (SMOTE) MC) Grid search	*? O/

MA) Evaluate model performance on production data without affecting users MB) Ensure zero-downtime updates MC) Prevent overfitting through monitoring MD) Train models in real-time 27: Which command in Python enables tracemalloc to capture the peak memory usage of a program? MA) `tracemalloc.start()` MB) `gc.collect()` MC) `psutil.memory_info()`	1/
MC) Prevent overfitting through monitoring MD) Train models in real-time 27: Which command in Python enables tracemalloc to capture the peak memory usage of a program? MA) `tracemalloc.start()` MB) `gc.collect()`	1/
27: Which command in Python enables tracemalloc to capture the peak memory usage of a program? MA) `tracemalloc.start()` MB) `gc.collect()`	1/
27: Which command in Python enables tracemalloc to capture the peak nemory usage of a program? MA) `tracemalloc.start()` MB) `gc.collect()`	1/
memory usage of a program? MA) `tracemalloc.start()` MB) `gc.collect()`	1/
MB) `gc.collect()`	✓
<pre>MC) `psutil.memory_info()`</pre>	
MD) `objgraph.show_most_common_types()`	
28: What is the best way to prevent conflicting updates to a shared Ferraform state file?	0/
MA) Lock the state file using remote backends like S3 with DynamoDB locking	
MB) Use `terraform plan` before every `apply`	×
©C) Disable auto-scaling temporarily	
ND) Store the state file locally and sync changes manually	
ct answer	
(A) Lock the state file using remote backends like S3 with DynamoDB locking	
2	8: What is the best way to prevent conflicting updates to a shared terraform state file? (A) Lock the state file using remote backends like S3 with DynamoDB locking (B) Use `terraform plan` before every `apply` (C) Disable auto-scaling temporarily (D) Store the state file locally and sync changes manually that answer

×	29: Which CRDT structure is best suited for real-time collaborative editing 0/ applications?
0	MA) G-Counter
0	MB) OR-Set (Observed-Remove Set)
0	©C) LWW-Register (Last-Write-Wins)
•	□D) P2P Priority Queues ×
Corr	ect answer
Corr	ect answer MB) OR-Set (Observed-Remove Set)
	30: What is the most effective way to mitigate gradient exploding in deep 1/2
	MB) OR-Set (Observed-Remove Set) 30: What is the most effective way to mitigate gradient exploding in deep 1/7 RNNs?
	MB) OR-Set (Observed-Remove Set) 30: What is the most effective way to mitigate gradient exploding in deep 1/7 RNNs? MA) Layer normalization

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