First and last name

Question 1/30

What is ML-Flow?

- A. A Python library for machine learning models
- B. An open-source platform for managing the end-to-end machine learning lifecycle
- C. A cloud-based machine learning service provided by Google
- D. A programming language for data science

Question 2/30

Which of the following components is part of ML-Flow?

- A. TensorFlow
- B. Jupyter Notebook
- C. Tracking, Projects, Models
- D. PyTorch

Question 3/30

ML-Flow's Tracking component is used for:

- A. Managing code versions
- B. Logging and organizing experiments
- C. Deploying machine learning models
- D. Generating synthetic data

Question 4/30

What is the purpose of ML-Flow Projects?

- A. Managing cloud infrastructure
- B. Packaging and reproducing machine learning code
- C. Visualizing data pipelines
- D. Optimizing hyperparameters

Question 5/30

What is ML-Ops?

- A. Machine Learning Optimization Techniques
- B. Mobile Learning Operations
- C. DevOps practices applied to machine learning
- D. A programming language for machine learning algorithms

Question 6/30

Which of the following is NOT a key aspect of ML-Ops?

- A. Continuous Integration
- B. Continuous Deployment
- C. Reinforcement Learning
- D. Model Monitoring

Ouestion 7/30

What is the main goal of ML-Ops?

- A. Building machine learning models
- B. Training neural networks
- C. Streamlining the machine learning lifecycle
- D. Data visualization

Ouestion 8/30

Which stage of the machine learning lifecycle does ML-Ops primarily focus on? (Choose the most relevant answer)

- A. Deployment and Monitoring
- B. Data Preprocessing
- C. Model Training
- D. Model Evaluation

Question 9/30

What is Azure Virtual Machines (VMs) used for?

- A. Deploying serverless functions
- B. Running virtualized Windows or Linux servers in the cloud
- C. Managing databases
- D. Storing and analyzing big data

Question 10/30

Which Azure service is used for deploying and managing containers?

- A. Azure Functions
- B. Azure Blob Storage
- C. Azure Container Apps
- D. Azure Cosmos DB

Question 11/30

What is the purpose of Azure Container Apps?

- A. Deploying virtual machines
- B. Running containers without managing servers
- C. Managing cloud networks
- D. Building machine learning models

Question 12/30

Which of the following is a benefit of using Azure VM Scale Sets?

- A. Automatic scaling of container instances
- B. Running containers without server management
- C. Automatically scaling virtual machines based on demand
- D. Real-time data streaming

Question 13/30

What is ZenML?

- A. A programming language for machine learning
- B. An open-source MLOps framework
- C. A cloud-based machine learning platform
- D. A deep learning library

Ouestion 14/30

Which of the following tasks can be performed using ZenML?

- A. Building neural networks
- B. Orchestrating machine learning pipelines
- C. Managing virtual machines
- D. Analyzing big data

Question 15/30

What does ZenML focus on in the machine learning lifecycle?

- A. Model Training
- B. Data Visualization
- C. End-to-End Pipeline Orchestration
- D. Model Deployment

Question 16/30

Which programming language is primarily used with ZenML?

- A. Java
- B. Python
- *C*. R
- D. JavaScript

Question 17/30

What is Apache Airflow?

- A. A machine learning framework
- B. An open-source platform for orchestrating complex workflows
- C. A cloud-based storage service
- D. A programming language for data analysis

Question 18/30

What is the primary concept in Apache Airflow for defining workflows?

- A. Recipes
- B. Directed Acyclic Graphs (DAGs)
- C. Pipelines
- D. Flowcharts

Question 19/30

Which component of Apache Airflow is responsible for executing tasks?

- A. Scheduler
- B. Executor
- C. Operator
- D. Worker

Ouestion 20/30

How does Apache Airflow represent a workflow?

- A. With flowcharts
- B. Using Python code defining Directed Acyclic Graphs (DAGs)
- C. Through JSON files
- D. With SQL queries

Question 21/30

What is the purpose of the airflow.cfg file in Apache Airflow?

- A. Defining DAGs
- B. Configuring Airflow settings and options
- C. Storing metadata
- D. Defining task dependencies

Question 22/30

Which of the following is NOT an Apache Airflow component?

- A. A) Scheduler
- B. B) Worker
- C. C) Data Lake
- D. D) Executor

Ouestion 23/30

How can you trigger a DAG manually in Apache Airflow?

- A. A) By restarting the Airflow web server
- B. B) By updating the airflow.cfg file
- C. C) By clicking the "Trigger DAG" button in the Airflow web interface
- D. D) By running a SQL query directly on the metadata database

Question 24/30

What does an Operator do in Apache Airflow?

- A. A) Schedules tasks
- B. B) Executes Python code
- C. C) Defines a single task in a DAG
- D. D) Manages worker nodes

Ouestion 25/30

Which component of Apache Airflow is responsible for pulling tasks from the queue and executing them?

- A. A) Scheduler
- B. B) Web server
- C. C) Worker
- D. D) Executor

Ouestion 26/30

Which command is used to list available DAGs in Apache Airflow?

- A. A) airflow list
- B. B) airflow show
- C. C) airflow dags list
- D. D) airflow show dags

Question 27/30

How does Apache Airflow handle task dependencies?

- A. A) By using Directed Acyclic Graphs (DAGs) to define dependencies between tasks
- B. B) By using machine learning algorithms to predict dependencies
- C. C) By randomly assigning dependencies at runtime
- D. D) By using a centralized dependency management system

Question 28/30

Which of the following is NOT a valid Airflow Executor type?

- A. A) GPUExecutor
- B. B) SequentialExecutor
- C. C) LocalExecutor
- D. D) CeleryExecutor

Ouestion 29/30

How does Apache Airflow handle task retries?

- A. A) By rerunning the entire DAG
- B. B) By re-executing the failed task up to a specified number of times
- C. C) By skipping the failed task and continuing with the next one
- D. D) By notifying the administrator via email

Question 30/30

Which component of Apache Airflow is responsible for managing the Airflow web interface?

- A. A) Web server
- B. B) Scheduler
- C. C) Worker
- D. D) Executor