

# 2026 Perfect MLA-C01–100% Free Reliable Study Notes | AWS Certified Machine Learning Engineer - Associate Valid Exam Vce

## COL106 - Data Structures and Algorithms

**Recap**

**C++**

- **class**: offers us a way to declare and define templates for objects of user-defined data type. A way to **implement** an ADT.
- **.h, .cpp** header files typically contain the **declaration** (i.e., behavioral signature) of data types, functions. The **CPP** file is used to define the implementation code.
- Every **executable source code** must have a main function. After (preprocessing) compilation (and linking), a binary **executable file** is produced by the compiler. The execution starts from the **main()** function.
- Every object and variable occupies some memory. **Pointer** type is used to hold the **address value** of **memory** location where the object can be found.
- **&** - 'address of' operator, **\*** - 'dereferencing' operator.

**ADT**

- Abstract data types define the **state** (i.e., information) maintained, and the **operations** provided. It abstracts out all the implementation details.
- There are different types of behaviors provided by ADTs: **creator, producer, mutator, observer**.

**Data-structure**

- Specific way to implement one (or more) ADT. It is possible that the same data structure may implement more than one ADT (behavior).
- We studied basic data-structures: **Arrays**, and **Singly-/Doubly-linked Lists**.

**Diagram:** A flowchart showing the relationship between C++ and C. C++ is linked to .h and .cpp files. .h is linked to C. C is linked to a box containing 'pointer' and 'object'.

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## Amazon MLA-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• Deployment and Orchestration of ML Workflows: This section of the exam measures skills of Forensic Data Analysts and focuses on deploying machine learning models into production environments. It covers choosing the right infrastructure, managing containers, automating scaling, and orchestrating workflows through CI</li><li>• CD pipelines. Candidates must be able to build and script environments that support consistent deployment and efficient retraining cycles in real-world fraud detection systems.</li></ul>

Topic 2	<ul style="list-style-type: none"> <li>• <b>ML Model Development:</b> This section of the exam measures skills of Fraud Examiners and covers choosing and training machine learning models to solve business problems such as fraud detection. It includes selecting algorithms, using built-in or custom models, tuning parameters, and evaluating performance with standard metrics. The domain emphasizes refining models to avoid overfitting and maintaining version control to support ongoing investigations and audit trails.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>• <b>Data Preparation for Machine Learning (ML):</b> This section of the exam measures skills of Forensic Data Analysts and covers collecting, storing, and preparing data for machine learning. It focuses on understanding different data formats, ingestion methods, and AWS tools used to process and transform data. Candidates are expected to clean and engineer features, ensure data integrity, and address biases or compliance issues, which are crucial for preparing high-quality datasets in fraud analysis contexts.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>• <b>ML Solution Monitoring, Maintenance, and Security:</b> This section of the exam measures skills of Fraud Examiners and assesses the ability to monitor machine learning models, manage infrastructure costs, and apply security best practices. It includes setting up model performance tracking, detecting drift, and using AWS tools for logging and alerts. Candidates are also tested on configuring access controls, auditing environments, and maintaining compliance in sensitive data environments like financial fraud detection.</li> </ul>

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## Amazon AWS Certified Machine Learning Engineer - Associate Sample Questions (Q61-Q66):

### NEW QUESTION # 61

An ML engineer needs to use an ML model to predict the price of apartments in a specific location. Which metric should the ML engineer use to evaluate the model's performance?

- A. Accuracy
- B. Area Under the ROC Curve (AUC)
- C. F1 score
- **D. Mean absolute error (MAE)**

**Answer: D**

Explanation:

When predicting continuous variables, such as apartment prices, it's essential to evaluate the model's performance using appropriate regression metrics. The Mean Absolute Error (MAE) is a widely used metric for this purpose.

Understanding Mean Absolute Error (MAE):

MAE measures the average magnitude of errors in a set of predictions, without considering their direction. It calculates the average absolute difference between predicted values and actual values, providing a straightforward interpretation of prediction accuracy.

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Advantages of MAE:

\* **Interpretability:** MAE is expressed in the same units as the target variable, making it easy to understand.

\* **Robustness to Outliers:** Unlike metrics that square the errors (e.g., Mean Squared Error), MAE does not disproportionately penalize larger errors, making it more robust to outliers.

Comparison with Other Metrics:

\* **Accuracy, AUC, F1 Score:** These metrics are designed for classification tasks, where the goal is to predict discrete labels. They are not suitable for regression problems involving continuous target variables.

\* **Mean Squared Error (MSE):** While MSE also measures prediction errors, it squares the differences, giving more weight to larger errors. This can be useful in certain contexts but may be sensitive to outliers.

Conclusion:

For evaluating the performance of a model predicting apartment prices-a continuous variable-MAE is an appropriate and effective metric. It provides a clear indication of the average prediction error in the same units as the target variable, facilitating straightforward interpretation and comparison.

References:

- \* Regression Metrics - GeeksforGeeks
- \* Evaluation Metrics for Your Regression Model - Analytics Vidhya
- \* Regression Metrics for Machine Learning - Machine Learning Mastery

#### NEW QUESTION # 62

A company is using Amazon SageMaker to create ML models. The company's data scientists need fine-grained control of the ML workflows that they orchestrate. The data scientists also need the ability to visualize SageMaker jobs and workflows as a directed acyclic graph (DAG). The data scientists must keep a running history of model discovery experiments and must establish model governance for auditing and compliance verifications.

Which solution will meet these requirements?

- A. Use SageMaker Pipelines and its integration with SageMaker Experiments to manage the entire ML workflows. Use SageMaker Experiments for the running history of experiments and for auditing and compliance verifications.
- B. Use AWS CodePipeline and its integration with SageMaker Experiments to manage the entire ML workflows. Use SageMaker Experiments for the running history of experiments and for auditing and compliance verifications.
- **C. Use SageMaker Pipelines and its integration with SageMaker Studio to manage the entire ML workflows. Use SageMaker ML Lineage Tracking for the running history of experiments and for auditing and compliance verifications.**
- D. Use AWS CodePipeline and its integration with SageMaker Studio to manage the entire ML workflows. Use SageMaker ML Lineage Tracking for the running history of experiments and for auditing and compliance verifications.

**Answer: C**

#### NEW QUESTION # 63

A company has trained and deployed an ML model by using Amazon SageMaker. The company needs to implement a solution to record and monitor all the API call events for the SageMaker endpoint. The solution also must provide a notification when the number of API call events breaches a threshold.

Use SageMaker Debugger to track the inferences and to report metrics. Create a custom rule to provide a notification when the threshold is breached.

Which solution will meet these requirements?

- A. Use SageMaker Debugger to track the inferences and to report metrics. Create a custom rule to provide a notification when the threshold is breached.
- **B. Add the Invocations metric to an Amazon CloudWatch dashboard for monitoring. Set up a CloudWatch alarm to provide notification when the threshold is breached.**
- C. Log all the endpoint invocation API events by using AWS CloudTrail. Use an Amazon CloudWatch dashboard for monitoring. Set up a CloudWatch alarm to provide notification when the threshold is breached.
- D. Use SageMaker Debugger to track the inferences and to report metrics. Use the tensor\_variance built-in rule to provide a notification when the threshold is breached.

**Answer: B**

Explanation:

Amazon SageMaker automatically tracks the `Invocations` metric, which represents the number of API calls made to the endpoint, in Amazon CloudWatch. By adding this metric to a CloudWatch dashboard, you can monitor the endpoint's activity in real-time. Setting up a CloudWatch alarm allows the system to send notifications whenever the API call events exceed the defined threshold, meeting both the monitoring and notification requirements efficiently.

#### NEW QUESTION # 64

An ML engineer needs to use data with Amazon SageMaker Canvas to train an ML model. The data is stored in Amazon S3 and is complex in structure. The ML engineer must use a file format that minimizes processing time for the data.

Which file format will meet these requirements?

- A. JSON files compressed with gzip
- **B. Apache Parquet files**
- C. CSV files compressed with Snappy
- D. JSON objects in JSONL format

**Answer: B**

### NEW QUESTION # 65

An ML engineer needs to use Amazon SageMaker Feature Store to create and manage features to train a model. Select and order the steps from the following list to create and use the features in Feature Store. Each step should be selected one time. (Select and order three.)

- \* Access the store to build datasets for training.
- \* Create a feature group.
- \* Ingest the records.

**Answer:**

Explanation:

□ Explanation:

Step 1: Create a feature group. Step 2: Ingest the records. Step 3: Access the store to build datasets for training.

\* Step 1: Create a Feature Group

\* Why? A feature group is the foundational unit in SageMaker Feature Store, where features are defined, stored, and organized. Creating a feature group specifies the schema (name, data type) for the features and the primary keys for data identification.

\* How? Use the SageMaker Python SDK or AWS CLI to define the feature group by specifying its name, schema, and S3 storage location for offline access.

\* Step 2: Ingest the Records

\* Why? After creating the feature group, the raw data must be ingested into the Feature Store. This step populates the feature group with data, making it available for both real-time and offline use.

\* How? Use the SageMaker SDK or AWS CLI to batch-ingest historical data or stream new records into the feature group. Ensure the records conform to the feature group schema.

\* Step 3: Access the Store to Build Datasets for Training

\* Why? Once the features are stored, they can be accessed to create training datasets. These datasets combine relevant features into a single format for machine learning model training.

\* How? Use the SageMaker Python SDK to query the offline store or retrieve real-time features using the online store API. The offline store is typically used for batch training, while the online store is used for inference.

Order Summary:

\* Create a feature group.

\* Ingest the records.

\* Access the store to build datasets for training.

This process ensures the features are properly managed, ingested, and accessible for model training using Amazon SageMaker Feature Store.

### NEW QUESTION # 66

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