

# Official Oracle 1Z0-1122-25 Study Guide & Latest 1Z0-1122-25 Exam Bootcamp

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This repository is a comprehensive study guide and preparation resource for the Certification Oracle Cloud Infrastructure 2025 AI Foundations Associate...

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## Oracle 1Z0-1122-25 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> <li>Intro to DL Foundations: This section assesses the expertise of Deep Learning Engineers in understanding deep learning frameworks and architectures. It covers fundamental concepts of deep learning, introduces convolutional neural networks (CNN) for image processing, and explores sequence models like recurrent neural networks (RNN) and long short-term memory (LSTM) networks for handling sequential data.</li> </ul>
Topic 2	<ul style="list-style-type: none"> <li>Intro to AI Foundations: This section of the exam measures the skills of AI Practitioners and Data Analysts in understanding the fundamentals of artificial intelligence. It covers key concepts, AI applications across industries, and the types of data used in AI models. It also explains the differences between artificial intelligence, machine learning, and deep learning, providing clarity on how these technologies interact and complement each other.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>Intro to Generative AI &amp; LLMs: This section tests the abilities of AI Developers to understand generative AI and large language models. It introduces the principles of generative AI, explains the fundamentals of large language models (LLMs), and discusses the core workings of transformers, prompt engineering, instruction tuning, and LLM fine-tuning for optimizing AI-generated content.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>Intro to ML Foundations: This section evaluates the knowledge of Machine Learning Engineers in understanding machine learning principles and methodologies. It explores the basics of supervised learning, focusing on regression and classification techniques, along with unsupervised learning methods such as clustering and anomaly detection. It also introduces reinforcement learning fundamentals, helping professionals grasp the different approaches used to train AI models.</li> </ul>

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## Oracle Cloud Infrastructure 2025 AI Foundations Associate Sample Questions (Q38-Q43):

### NEW QUESTION # 38

What is the primary purpose of reinforcement learning?

- A. Learning from outcomes to make decisions
- B. Finding relationships within data sets
- C. Making predictions from labeled data
- D. Identifying patterns in data

**Answer: A**

Explanation:

Reinforcement learning (RL) is a type of machine learning where an agent learns to make decisions by taking actions in an environment to achieve a certain goal. The agent receives feedback in the form of rewards or penalties based on the outcomes of its actions, which it uses to learn and improve its decision-making over time. The primary purpose of reinforcement learning is to enable the agent to learn optimal strategies by interacting with its environment, thereby maximizing cumulative rewards. This approach is commonly used in areas such as robotics, game playing, and autonomous systems.

### NEW QUESTION # 39

How does AI enhance human efforts?

- A. By increasing the physical strength of humans
- B. By completely replacing human workers in all tasks
- C. By deleting data humans need to handle
- D. By processing data at a speed and effectiveness far beyond human capability

**Answer: D**

Explanation:

AI enhances human efforts by processing large volumes of data quickly and accurately, performing complex computations that would be time-consuming or impossible for humans to handle manually. This allows humans to focus on more strategic, creative, and decision-making tasks, leveraging AI's ability to provide insights, automate repetitive processes, and support decision-making. AI does not physically enhance human capabilities, nor does it replace human workers in all tasks. Instead, it serves as an augmentation tool, amplifying human productivity and capabilities.

### NEW QUESTION # 40

Which feature of OCI Speech helps make transcriptions easier to read and understand?

- A. Timestamping
- B. Text normalization
- C. Profanity filtering
- D. Audio tuning

**Answer: B**

Explanation:

The text normalization feature of OCI Speech helps make transcriptions easier to read and understand by converting spoken language into a more standardized and grammatically correct format. This process includes correcting grammar, punctuation, and formatting, ensuring that the transcribed text is clear, accurate, and suitable for various use cases. Text normalization enhances the usability of transcriptions, making them more accessible and easier to process in downstream applications.

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### NEW QUESTION # 41

How is "Prompt Engineering" different from "Fine-tuning" in the context of Large Language Models (LLMs)?

- A. Prompt Engineering creates input prompts, while Fine-tuning retrains the model on specific data.
- B. Prompt Engineering adjusts the model's parameters, while Fine-tuning crafts input prompts.
- C. Prompt Engineering modifies training data, while Fine-tuning alters the model's structure.
- D. Both involve retraining the model, but Prompt Engineering does it more often.

**Answer: A**

Explanation:

In the context of Large Language Models (LLMs), Prompt Engineering and Fine-tuning are two distinct methods used to optimize the performance of AI models.

Prompt Engineering involves designing and structuring input prompts to guide the model in generating specific, relevant, and high-quality responses. This technique does not alter the model's internal parameters but instead leverages the existing capabilities of the model by crafting precise and effective prompts. The focus here is on optimizing how you ask the model to perform tasks, which can involve specifying the context, formatting the input, and iterating on the prompt to improve outputs .

Fine-tuning, on the other hand, refers to the process of retraining a pretrained model on a smaller, task-specific dataset. This adjustment allows the model to adapt its parameters to better suit the specific needs of the task at hand, effectively "specializing" the model for particular applications. Fine-tuning involves modifying the internal structure of the model to improve its accuracy and performance on the targeted tasks .

Thus, the key difference is that Prompt Engineering focuses on how to use the model effectively through input manipulation, while Fine-tuning involves altering the model itself to improve its performance on specialized tasks.

### NEW QUESTION # 42

What does "fine-tuning" refer to in the context of OCI Generative AI service?

- A. Adjusting the model parameters to improve accuracy
- B. Upgrading the hardware of the AI clusters
- C. Doubling the neural network layers
- D. Encrypting the data for security reasons

**Answer: A**

Explanation:

Fine-tuning in the context of the OCI Generative AI service refers to the process of adjusting the parameters of a pretrained model to better fit a specific task or dataset. This process involves further training the model on a smaller, task-specific dataset, allowing the model to refine its understanding and improve its performance on that specific task. Fine-tuning is essential for customizing the general capabilities of a pretrained model to meet the particular needs of a given application, resulting in more accurate and relevant outputs. It is distinct from other processes like encrypting data, upgrading hardware, or simply increasing the complexity of the model architecture.

### NEW QUESTION # 43

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