

# Professional-Machine-Learning-Engineer PrüfungGuide, Google Professional-Machine-Learning-Engineer Zertifikat - Google Professional Machine Learning Engineer



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Um Ihre Zertifizierungsprüfungen reibungslos erfolgreich zu meistern, brauchen Sie nur unsere Prüfungsfragen und Antworten zu Google Professional-Machine-Learning-Engineer (Google Professional Machine Learning Engineer) auswendigzulernen. Viel Erfolg!

Die Google Professional Machine Learning Engineer -Zertifizierung ist in der Branche hoch angesehen und als Maßstab für hervorragende Leistungen im maschinellen Lernen anerkannt. Das Erreichen dieser Zertifizierung zeigt den Arbeitgebern und Kollegen, dass ein Kandidat über die Fähigkeiten und Kenntnisse verfügt, die für das Entwerfen, Erstellen und Bereitstellen von Modellen für maschinelles Lernen auf der Google Cloud -Plattform erforderlich sind. Diese Zertifizierung ist ideal für Datenwissenschaftler, Ingenieure, Software -Ingenieure und andere Fachkräfte, die ihre Fähigkeiten im maschinellen Lernen verbessern und ihre Karriere in diesem Bereich vorantreiben möchten.

>> Professional-Machine-Learning-Engineer Prüfungsübungen <<

## Professional-Machine-Learning-Engineer Prüfungsfragen, Professional-Machine-Learning-Engineer Fragen und Antworten, Google Professional Machine Learning Engineer

Über die Prüfungsfragen und Antworten zur Google Professional-Machine-Learning-Engineer Zertifizierung hat ITZert eine gute Qualität. ITZert wird die zuverlässigsten Informationsressourcen sein. Durch die Feedbacks und tiefintensive Analyse sind wir in einer Stelle. Wir müssen darüber entscheiden, welche Anbieter Ihnen die neuesten Übungen von guter Qualität zur Google Professional-Machine-Learning-Engineer Zertifizierungsprüfung bieten und aktualisieren zu können. Unsere Schulungsunterlagen zur Google Professional-Machine-Learning-Engineer Zertifizierungsprüfung werden ständig bearbeitet und modifiziert. Wir haben die umfassendsten Ausbildungserfahrungen. Wenn Sie Zertifikate erhalten wollen, benutzen Sie doch unsere Schulungsunterlagen zur Google Professional-Machine-Learning-Engineer Zertifizierungsprüfung. Schicken ITZert doch schnell in Ihren Warenkorb. Unzählige Überraschungen warten schon auf Sie.

## Google Professional Machine Learning Engineer Professional-Machine-Learning-Engineer Prüfungsfragen mit Lösungen (Q77-Q82):

### 77. Frage

You are building a linear regression model on BigQuery ML to predict a customer's likelihood of purchasing your company's

products. Your model uses a city name variable as a key predictive component. In order to train and serve the model, your data must be organized in columns. You want to prepare your data using the least amount of coding while maintaining the predictable variables. What should you do?

- A. Use TensorFlow to create a categorical variable with a vocabulary list Create the vocabulary file, and upload it as part of your model to BigQuery ML.
- B. Create a new view with BigQuery that does not include a column with city information
- **C. Use Cloud Data Fusion to assign each city to a region labeled as 1, 2, 3, 4, or 5r and then use that number to represent the city in the model.**
- D. Use Dataprep to transform the state column using a one-hot encoding method, and make each city a column with binary values.

**Antwort: C**

### 78. Frage

A Data Scientist received a set of insurance records, each consisting of a record ID, the final outcome among 200 categories, and the date of the final outcome. Some partial information on claim contents is also provided, but only for a few of the 200 categories. For each outcome category, there are hundreds of records distributed over the past 3 years. The Data Scientist wants to predict how many claims to expect in each category from month to month, a few months in advance. What type of machine learning model should be used?

- A. Classification month-to-month using supervised learning of the 200 categories based on claim contents.
- **B. Classification with supervised learning of the categories for which partial information on claim contents is provided, and forecasting using claim IDs and timestamps for all other categories.**
- C. Forecasting using claim IDs and timestamps to identify how many claims in each category to expect from month to month.
- D. Reinforcement learning using claim IDs and timestamps where the agent will identify how many claims in each category to expect from month to month.

**Antwort: B**

Begründung:  
Explanation

### 79. Frage

You work at a mobile gaming startup that creates online multiplayer games Recently, your company observed an increase in players cheating in the games, leading to a loss of revenue and a poor user experience. You built a binary classification model to determine whether a player cheated after a completed game session, and then send a message to other downstream systems to ban the player that cheated Your model has performed well during testing, and you now need to deploy the model to production You want your serving solution to provide immediate classifications after a completed game session to avoid further loss of revenue. What should you do?

- A. Import the model into Vertex AI Model Registry. Use the Vertex Batch Prediction service to run batch inference jobs.
- B. Save the model files in a VM Load the model files each time there is a prediction request and run an inference job on the VM.
- **C. Import the model into Vertex AI Model Registry Create a Vertex AI endpoint that hosts the model and make online inference requests.**
- D. Save the model files in a Cloud Storage Bucket Create a Cloud Function to read the model files and make online inference requests on the Cloud Function.

**Antwort: C**

Begründung:

Online inference is a process where you send a single or a small number of prediction requests to a model and get immediate responses<sup>1</sup>. Online inference is suitable for scenarios where you need timely predictions, such as detecting cheating in online games. Online inference requires that the model is deployed to an endpoint, which is a resource that provides a service URL for prediction requests<sup>2</sup>.

Vertex AI Model Registry is a central repository where you can manage the lifecycle of your ML models<sup>3</sup>. You can import models from various sources, such as custom models or AutoML models, and assign them to different versions and aliases<sup>3</sup>. You can also deploy models to endpoints, which are resources that provide a service URL for online prediction<sup>2</sup>.

By importing the model into Vertex AI Model Registry, you can leverage the Vertex AI features to monitor and update the model<sup>3</sup>. You can use Vertex AI Experiments to track and compare the metrics of different model versions, such as accuracy, precision, recall, and AUC. You can also use Vertex AI Explainable AI to generate feature attributions that show how much each input feature contributed to the model's prediction.

By creating a Vertex AI endpoint that hosts the model, you can use the Vertex AI Prediction service to serve online inference requests<sup>2</sup>. Vertex AI Prediction provides various benefits, such as scalability, reliability, security, and logging<sup>2</sup>. You can use the Vertex AI API or the Google Cloud console to send online inference requests to the endpoint and get immediate classifications<sup>4</sup>. Therefore, the best option for your scenario is to import the model into Vertex AI Model Registry, create a Vertex AI endpoint that hosts the model, and make online inference requests.

The other options are not suitable for your scenario, because they either do not provide immediate classifications, such as using batch prediction or loading the model files each time, or they do not use Vertex AI Prediction, which would require more development and maintenance effort, such as creating a Cloud Function or a VM.

Reference:

Online versus batch prediction | Vertex AI | Google Cloud

Deploy a model to an endpoint | Vertex AI | Google Cloud

Introduction to Vertex AI Model Registry | Google Cloud

Get online predictions | Vertex AI | Google Cloud

### 80. Frage

A Machine Learning Specialist is using an Amazon SageMaker notebook instance in a private subnet of a corporate VPC. The ML Specialist has important data stored on the Amazon SageMaker notebook instance's Amazon EBS volume, and needs to take a snapshot of that EBS volume. However, the ML Specialist cannot find the Amazon SageMaker notebook instance's EBS volume or Amazon EC2 instance within the VPC.

Why is the ML Specialist not seeing the instance visible in the VPC?

- A. Amazon SageMaker notebook instances are based on AWS ECS instances running within AWS service accounts.
- B. Amazon SageMaker notebook instances are based on the Amazon ECS service within customer accounts.
- **C. Amazon SageMaker notebook instances are based on EC2 instances running within AWS service accounts.**
- D. Amazon SageMaker notebook instances are based on the EC2 instances within the customer account, but they run outside of VPCs.

**Antwort: C**

Begründung:

Explanation/Reference: <https://docs.aws.amazon.com/sagemaker/latest/dg/gs-setup-working-env.html>

### 81. Frage

You are an ML engineer at a regulated insurance company. You are asked to develop an insurance approval model that accepts or rejects insurance applications from potential customers. What factors should you consider before building the model?

- **A. Traceability, reproducibility, and explainability**
- B. Redaction, reproducibility, and explainability
- C. Differential privacy federated learning, and explainability
- D. Federated learning, reproducibility, and explainability

**Antwort: A**

Begründung:

<https://www.oecd.org/finance/Impact-Big-Data-AI-in-the-Insurance-Sector.pdf>

<https://medium.com/artefact-engineering-and-data-science/including-ethics-best-practices-in-your-data-science-project-from-day-one-c15b26c2b99>

### 82. Frage

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