Google GCP-PMLE Study Guide PDF

GRAB THE GOOGLE PROFESSIONAL MACHINE LEARNING ENGINEER CERTIFICATION PDF QUESTIONS & ANSWERS

Exam Summary – Syllabus –Questions

GCP-PMLE

Google Cloud Platform - Professional Machine Learning Engineer (GCP-PMLE)

60 Questions Exam – 70% Cut Score – Duration of 120 minutes

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Get an Overview of the GCP-PMLE Certification:

Who should take the **GCP-PMLE exam**? This is the first question that comes to a candidate's mind when preparing for the Professional Machine Learning Engineer certification. The GCP-PMLE certification is suitable for candidates who are keen to earn knowledge on the Cloud and grab their Google Cloud Platform - Professional Machine Learning Engineer (GCP-PMLE). When it is about starting the preparation, most candidates get confused regarding the study materials and study approach. But GCP-PMLE study guide PDF is here to solve the problem. GCP-PMLE PDF combines some effective sample questions and offers valuable tips to pass the exam with ease.

Why Should You Earn the Google GCP-PMLE Certification?

There are several reasons why one should grab the GCP-PMLE certification.

- The Professional Machine Learning Engineer certification proves to be one of the most recognized certifications.
- The certification badge proves the knowledge of the candidate regarding subject matters and makes his resume presentable to potential candidates.
- Thus earning the **Google Cloud Platform - Professional Machine Learning Engineer (GCP-PMLE)** is a powerful qualification for a prosperous career.

What Is the Google GCP-PMLE Professional Machine Learning Engineer Certification Exam Structure?

Exam Name	Google Professional Machine Learning Engineer
Exam Code	GCP-PMLE
Exam Price	$200 USD
Duration	120 minutes
Number of Questions	60
Passing Score	Pass / Fail (Approx 70%)
Recommended Training / Books	**Google Cloud training** **Google Cloud documentation** **Google Cloud solutions**
Schedule Exam	**PEARSON VUE**
Sample Questions	**Google GCP-PMLE Sample Questions**
Recommended Practice	**Google Cloud Platform - Professional Machine Learning Engineer (GCP-PMLE) Practice Test**

Enhance Knowledge with GCP-PMLE Sample Questions:

Question: 1

You work for a large retailer. You want to use ML to forecast future sales leveraging 10 years of historical sales data.

The historical data is stored in Cloud Storage in Avro format. You want to rapidly experiment with all the available data.

How should you build and train your model for the sales forecast?

a) Load data into BigQuery and use the ARIMA model type on BigQuery ML.
b) Convert the data into CSV format and create a regression model on AutoML Tables.
c) Convert the data into TFRecords and create an RNN model on TensorFlow on AI Platform Notebooks.
d) Convert and refactor the data into CSV format and use the built-in XGBoost algorithm on AI Platform Training.

Answer: a

Question: 2

You work on a team where the process for deploying a model into production starts with data scientists training different versions of models in a Kubeflow pipeline.

The workflow then stores the new model artifact into the corresponding Cloud Storage bucket. You need to build the next steps of the pipeline after the submitted model is ready to be tested and deployed in production on AI Platform.

How should you configure the architecture before deploying the model to production?

a) Deploy model in test environment -> Evaluate and test model -> Create a new AI Platform model version
b) Validate model -> Deploy model in test environment -> Create a new AI Platform model version
c) Create a new AI Platform model version -> Evaluate and test model -> Deploy model in test environment
d) Create a new AI Platform model version - > Deploy model in test environment -> Validate model

Answer: a

Question: 3

You work for a manufacturing company that owns a high-value machine which has several machine settings and multiple sensors.

A history of the machine's hourly sensor readings and known failure event data are stored in BigQuery. You need to predict if the machine will fail within the next 3 days in order to schedule maintenance before the machine fails.

Which data preparation and model training steps should you take?

a) Data preparation: Daily max value feature engineering; Model training: AutoML classification with BQML
b) Data preparation: Daily min value feature engineering; Model training: Logistic regression with BQML and AUTO_CLASS_WEIGHTS set to True
c) Data preparation: Rolling average feature engineering; Model training: Logistic regression with BQML and AUTO_CLASS_WEIGHTS set to False
d) Data preparation: Rolling average feature engineering; Model training: Logistic regression with BQML and AUTO_CLASS_WEIGHTS set to True

Answer: d

Question: 4

You work for a gaming company that develops and manages a popular massively multiplayer online (MMO) game.

The game's environment is open-ended, and a large number of positions and moves can be taken by a player. Your team has developed an ML model with TensorFlow that predicts the next move of each player.

Edge deployment is not possible, but low-latency serving is required. How should you configure the deployment?

a) Use a Cloud TPU to optimize model training speed.
b) Use AI Platform Prediction with a NVIDIA GPU to make real-time predictions.
c) Use AI Platform Prediction with a high-CPU machine type to get a batch prediction for the players.
d) Use AI Platform Prediction with a high-memory machine type to get a batch prediction for the players.

Answer: b

Question: 5

Your team is using a TensorFlow Inception-v3 CNN model pretrained on ImageNet for an image classification prediction challenge on 10,000 images. You will use AI Platform to perform the model training.

What TensorFlow distribution strategy and AI Platform training job configuration should you use to train the model and optimize for wall-clock time?

a) Default Strategy; Custom tier with a single master node and four v100 GPUs.
b) One Device Strategy; Custom tier with a single master node and four v100 GPUs.
c) One Device Strategy; Custom tier with a single master node and eight v100 GPUs.
d) MirroredStrategy; Custom tier with a single master node and four v100 GPUs.

Answer: d

Question: 6

You work for a textile manufacturer and have been asked to build a model to detect and classify fabric defects.

You trained a machine learning model with high recall based on high resolution images taken at the end of the production line. You want quality control inspectors to gain trust in your model.

Which technique should you use to understand the rationale of your classifier?

a) Use the Integrated Gradients method to efficiently compute feature attributions for each predicted image.
b) Use K-fold cross validation to understand how the model performs on different test datasets.
c) Use PCA (Principal Component Analysis) to reduce the original feature set to a smaller set of easily understood features.
d) Use k-means clustering to group similar images together, and calculate the Davies-Bouldin index to evaluate the separation between clusters.

Answer: a

Question: 7

You are an ML engineer at a media company. You want to use machine learning to analyze video content, identify objects, and alert users if there is inappropriate content.

Which Google Cloud products should you use to build this project?

a) Pub/Sub, Cloud Function, Cloud Vision API
b) Pub/Sub, Cloud IoT, Dataflow, Cloud Vision API, Cloud Logging
c) Pub/Sub, Cloud Function, Video Intelligence API, Cloud Logging
d) Pub/Sub, Cloud Function, AutoML Video Intelligence, Cloud Logging

Answer: c

Question: 8

You work for a large financial institution that is planning to use Dialogflow to create a chatbot for the company's mobile app.

You have reviewed old chat logs and tagged each conversation for intent based on each customer's stated intention for contacting customer service.

About 70% of customer inquiries are simple requests that are solved within 10 intents. The remaining 30% of inquiries require much longer and more complicated requests.

Which intents should you automate first?

a) Automate a blend of the shortest and longest intents to be representative of all intents.
b) Automate the more complicated requests first because those require more of the agents' time.
c) Automate the 10 intents that cover 70% of the requests so that live agents can handle the more complicated requests.
d) Automate intents in places where common words such as "payment" only appear once to avoid confusing the software.

Answer: c

Question: 9

You need to build an object detection model for a small startup company to identify if and where the company's logo appears in an image. You were given a large repository of images, some with logos and some without.

These images are not yet labelled. You need to label these pictures, and then train and deploy the model. What should you do?

a) Create two folders: one where the logo appears and one where it doesn't. Manually place images in each folder. Use AI Platform to build and train a real time object detection model.
b) Use Vision API to detect and identify logos in pictures and use it as a label. Use AI Platform to build and train a convolutional neural network.
c) Create two folders: one where the logo appears and one where it doesn't. Manually place images in each folder. Use AI Platform to build and train a convolutional neural network.
d) Use Google Cloud's Data Labelling Service to label your data. Use AutoML Object Detection to train and deploy the model.

Answer: d

Question: 10

You need to write a generic test to verify whether Dense Neural Network (DNN) models automatically released by your team have a sufficient number of parameters to learn the task for which they were built.

What should you do?

a) Train the model for a few iterations, and check for NaN values.
b) Train the model with no regularization, and verify that the loss function is close to zero.
c) Train a simple linear model, and determine if the DNN model outperforms it.
d) Train the model for a few iterations, and verify that the loss is constant.

Answer: b

What Study Guide Works Best in Acing the Google GCP-PMLE Professional Machine Learning Engineer Certification?

The GCP-PMLE study guide is a combination of some proven study tips and the combination of all valuable study materials like sample questions, syllabus and practice tests in one place.

Explore the Syllabus Topics and Learn from the Core:

If you are determined to earn success in the Professional Machine Learning Engineer exam, getting in full touch of the **syllabus** is mandatory. During preparation, you might not like all syllabus sections or topics, but try to get at least the fundamental knowledge from the sections you don't like. The more you possess knowledge on all syllabus sections, the more is the chance to attempt maximum number of questions during the actual exam.

Make Your Schedule:

Studying and completing the syllabus becomes easier, if you work on the syllabus topics after making a schedule. Your syllabus must mention what areas you want to cover and within what time. Once you make a schedule and follow it regularly, syllabus completion becomes easier and preparation becomes smoother.

Get Expert Advice from the Training:

Do not forget to join the Google GCP-PMLE training if it is providing any. Training enhances the practical knowledge of a candidate, which helps them to work well in the practical field during projects.

Get Access to the PDF Sample Questions:

If your study material is in a **PDF format** or the materials are mobile-friendly, what could be better than that? Get access to the free sample questions and keep enhancing your knowledge beyond the syllabus.

Avoid Dumps and Utilize the Google GCP-PMLE Practice Test:

Why should you rely on practice tests? The reason is simple: you must get familiar with the exam pattern before reaching the exam hall. An aspirant aware of the exam structure and time management during the exam preparation can perform well in the actual exam and attempt the maximum number of questions during the exam.

Many aspirants prefer to read from dumps, but they miss out on the self assessment method. Therefore, GCP-PMLE practice tests always stand out to be the better choice than dumps PDF.

Avail the Proven GCP-PMLE Practice Test for Success!!!

Do you want to pass the GCP-PMLE exam on your first attempt? Stop worrying; we, VMExam.com are here to provide you the best experience during your Google Professional Machine Learning Engineer preparation. Try out our free mock tests to get a glimpse of our quality study materials, and build your confidence with the premium **GCP-PMLE practice tests**. Our expert-designed questions help you to improve performance and pass the exam on your first attempt.