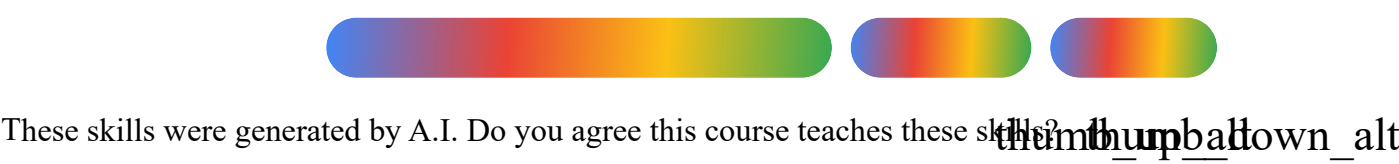


Course

Build and Deploy Machine Learning Solutions on Vertex AI



These skills were generated by A.I. Do you agree this course teaches these skills?

date_range 8 hours 15 minutes show_chart Intermediate
universal_currency_alt 21 Credits

Earn a **skill badge** by completing the **Build and Deploy Machine Learning Solutions with Vertex AI** course, where you will learn how to use Google Cloud's unified Vertex AI platform and its AutoML and custom training services to train, evaluate, tune, explain, and deploy machine learning solutions.

This skill badge course is for professional Data Scientists and Machine Learning Engineers. The datasets and labs are built around high business impact enterprise machine learning use cases; these include retail customer lifetime value prediction, mobile game churn prediction, visual car part deflection identification, and fine tuning BERT for review sentiment classification. Learners who complete this skill badge will gain hands-on experience with Vertex AI for new and existing ML workloads and be able to leverage AutoML, custom training, and new MLOps services to significantly enhance development productivity and accelerate time to value.

A skill badge is an exclusive digital badge issued by Google Cloud in recognition of your proficiency with Google Cloud products and services and tests your ability to apply your knowledge in an interactive hands-on environment. Complete this Skill Badge, and the final assessment challenge lab, to receive a digital badge that you can share with your network.

Congratulations! You finished this course.

You've earned a badge. Share this badge on your profile page.



check

Build and Deploy Machine Learning Solutions on Vertex AI

required

LAB

[Vertex AI: Owik Start](#) 1 hour 30 minutes

check

In this lab, you use BigQuery for data processing and exploratory data analysis, and the Vertex AI platform to train and deploy a custom TensorFlow Regressor...

required

LAB

[Identify Damaged Car Parts with Vertex AutoML Vision](#) 1 hour 30 minutes

check

In this lab, you will learn how to train a custom Vertex AI image classification model to recognize damaged car parts.

required

LAB

[Deploy a BigQuery ML Customer Churn Classifier to Vertex AI for Online Predictions](#) 1 hour 30 minutes

check

In this lab, you will train, tune, evaluate, explain, and generate batch and online predictions with a BigQuery ML XGBoost model. You will use a Google Analytic...

required

LAB

[Vertex Pipelines: Owik Start](#) 1 hour 30 minutes

check

In this lab you will create ML Pipelines using Vertex AI

required

LAB

[Build and Deploy Machine Learning Solutions with Vertex AI: Challenge Lab](#) 2 hours

check

In this challenge lab you will train, deploy, and create a model pipeline using Vertex AI.

info	Course Info
Objectives	<ul style="list-style-type: none">Write and train models locally in a hosted Vertex NotebookContainerize your training code and push it to Google Cloud Artifact RegistryCreate managed image dataset artifacts for experiment trackingTrain a BigQuery ML (BQML) XGBoost classifierTrigger a training job using the Vertex AI ConsoleCreate a custom model evaluation component using the KFP SDKIncorporate pre-built KFP components into your pipelineDeploy your trained models to a Vertex Endpoint for online predictionsQuery your model for online predictions and explanations
Prerequisites	<p>Prior to enrolling in this skill badge course, it is recommended that you have prior experience with Python programming as covered in the Google Python Class (https://developers.google.com/edu/python) and that you complete the Machine Learning Crash Course (https://developers.google.com/machine-learning/crash-course). See the Google Cloud Tech AI Simplified (https://www.youtube.com/watch?v=aNWCzyCK4Us) video series for an overview of Vertex AI.</p>
Available languages	
English	
What do I do when I finish this course?	
After finishing this course, you can explore additional content in your learning path or browse the catalog.	
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Upon finishing the required items in a course, you will earn a badge of completion. Badges can be viewed on your profile and shared with your social network.	
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