Integrate with Machine Learning APIs

Advanced 7 Steps 6 hours 45 Credits

Earn a **skill badge** by completing the **Integrate with Machine Learning APIs** quest, where you learn the basic features for the following machine learning and AI technologies: Cloud Vision API, Cloud Cloud Translation API, and Cloud Natural Language API.

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 quest, and the final assessment challenge lab, to receive a skill badge that you can share with your network.

Quest Outline

Introduction to APIs in Google

This lab will teach you about the architecture and basic functioning of Application Programming Interfaces (APIs). This will be supplemented with hands-on practice, where you will configure and run Cloud Storage API methods in Cloud Shell.

45 minutes	Introductory	1 Credit

Extract, Analyze, and Translate Text from Images with the Cloud ML APIs

In this lab you'll combine the Cloud Vision, Natural Language, and Translation APIs to capture text strings from images, recognize characters, and analyze and translate the text strings into other languages.

50 minutes	Expert	9 Credits

Classify Text into Categories with the Natural Language API

In this lab you'll learn how to classify text into categories using the Natural Language API

1 hour	Advanced	7 Credits

Detect Labels, Faces, and Landmarks in Images with the Cloud Vision API

The Cloud Vision API lets you understand the content of an image by encapsulating powerful machine learning models in a simple REST API. In this lab you'll send an image to the Cloud Vision API and have it identify objects, faces, and landmarks.

30 minutes	Advanced	7 Credits

Entity and Sentiment Analysis with the Natural Language API

The Cloud Natural Language API lets you extract entities, and perform sentiment and syntactic analysis on a block of text. In this hands-on lab you'll learn how to extract entities and sentiment from text using the Cloud Natural Language API.

40 minutes	Fundamental	5 Credits

Awwvision: Cloud Vision API from a Kubernetes Cluster

This hands-on lab uses Kubernetes and Cloud Vision API to create an example of how to use the Vision API to classify (label) images from Reddit's /r/aww subreddit and display the labelled results in a web app.

45 minutes	Advanced	7 Credits

[Integrate with Machine Learning APIs: Challenge Lab](#)

This challenge labs tests your skills in implementing a solution using the Google Machine Learning APIs

1 hour   Expert   9 Credits

Quest Complete!

Congrats! You completed this quest and earned a badge. Become a cloud expert and start another.