

# Intro to ML: Language Processing

Introductory 5 Steps 4 hours 13 Credits

It's no secret that machine learning is one of the fastest growing fields in tech, and the Google Cloud Platform has been instrumental in furthering its development. With a host of APIs, GCP has a tool for just about any machine learning job. In this introductory quest, you will get hands-on practice with machine learning as it applies to language processing by taking labs that will enable you to extract entities from text, and perform sentiment and syntactic analysis as well as use the Speech to Text API for transcription.

Machine Learning

## Quest Outline

### [AI Platform: Qwik Start](#)

In this lab you train and deploy a TensorFlow model to AI Platform for serving (prediction). Watch these short videos [Harness the Power of Machine Learning with AI Platform](#) and [AI Platform: Qwik Start - Qwiklabs Preview](#).

1 hour

Introductory

1 Credit

### [Google Cloud Speech API: Qwik Start](#)

The Google Cloud Speech API integrates speech recognition into dev apps; you can now send audio/receive a text transcription. Watch these short videos [Powerful Speech Recognition Using Google Machine Learning](#) and [Google Cloud Speech: Qwik Start - Qwiklabs Preview](#)

15 minutes

Introductory

1 Credit

### [Cloud Natural Language API: Qwik Start](#)

The Cloud Natural Language API lets you extract entities and perform sentiment and syntactic analysis on text. Watch these short videos [Gain Valuable Insights from Text with Cloud Natural Language](#) and [Cloud Natural Language: Qwik Start - Qwiklabs Preview](#).

40 minutes

Introductory

1 Credit

### [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

### [Speech to Text Transcription with the Cloud Speech API](#)

The Cloud Speech API lets you do speech to text transcription from audio files in over 80 languages. In this hands-on lab you'll record your own audio file and send it to the Speech API for transcription.

30 minutes

Fundamental

5 Credits

## Quest Complete!

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

