TensorFlow Developer Certificate
Differentiate yourself

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TensorFlow Developer Certified

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Background

Interest in production ML skills is on the rise from both sides of the job market:

job seekers and companies looking for great engineers.

TensorFlow is the **most-used ML tool in 2022***, being adopted by **3 million software developers** to enhance their products and solutions using Machine Learning. And we're only getting started – the survey showed that TensorFlow was the most wanted framework amongst developers, with an estimated **4 million developers wanting to adopt it** in the near future.

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The **TF Certificate program bridges the gap between the demand** from companies for data-knowledgeable, production ML-capable engineers -- **and the students and developers around the world interested in getting a job in ML**

The goal of this certificate is to provide everyone in the world the **opportunity to showcase their expertise in ML** in an increasingly AI-driven global job market

Who is it for?

The certificate in TensorFlow development is intended as a foundational certificate for:

- Students
- Developers
- Data Scientists

    who want to demonstrate practical Machine Learning skills through building and training of models using TensorFlow

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Description
What is the TF certificate?

It is a "hands-on" exam

- You will be required to write code for this exam
- No multiple-choice questions
- You will be asked to create models with TensorFlow for some specific tasks.

Skills checklist

The TensorFlow Developer Certificate exam will test you on:

1. TensorFlow Developer skills
2. Building and training Neural Network models using TensorFlow 2.x
3. Image Classification
4. Natural Language Processing (NLP)
5. Time Series, sequences and predictions

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How to prepare

DeepLearning.AI TensorFlow Developer Professional Certificate

Browse › Data Science › Machine Learning

Offered By

DeepLearning.AI

DeepLearning.AI TensorFlow Developer Professional Certificate

★★★★★ 4.7 19,421 ratings

Laurence Moroney

Enrolled · Already enrolled

157,864 already enrolled

About · How It Works · Courses · Instructors · Enrollment Options · FAQ

WHAT YOU WILL LEARN

✓ Best practices for TensorFlow, a popular open-source machine learning framework to train a neural network for a computer vision applications.

✓ Build natural language processing systems using TensorFlow.

✓ Handle real-world image data and explore strategies to prevent overfitting, including augmentation and dropout.

✓ Apply RNNs, GRUs, and LSTMs as you train them using text repositories.

SKILLS YOU WILL GAIN

Computer Vision · Convolutional Neural Network · Machine Learning · Natural Language Processing · Tensorflow · Inductive Transfer · Augmentation · Dropouts · Tokenization · RNNs · Forecasting · Time Series

About this Professional Certificate
82,381 recent views

TensorFlow is one of the most in-demand and popular open-source deep learning frameworks available today. The DeepLearning.AI TensorFlow Developer Professional Certificate program teaches you applied machine learning skills with TensorFlow so you can build and train powerful models.

In this hands-on, four-course Professional Certificate program, you'll learn the necessary tools to build scalable AI-powered applications with TensorFlow. After finishing this program, you'll be able to apply your new TensorFlow skills to a wide range of problems and projects. This program can help you prepare for the **Google TensorFlow Certificate exam** and bring you one step closer to achieving the Google TensorFlow Certificate.

LEARNER CAREER OUTCOMES

29% Started a new career after completing this specialization.

Shareable Certificate
Earn a Certificate upon completion

100% online courses
Start instantly and learn at your own schedule.

Flexible Schedule
Set and maintain flexible deadlines.

Intermediate Level
Some related experience required.

Approximately 4 months to complete
Suggested pace of 5 hours/week

English
Subtitles: English, Arabic, French, Portuguese (European), Italian, Vietnamese, German, Russian, Turkish, Spanish, Japanese, Korean

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The courses in this specialization follow the skills checklist of the exam

Exam's skills checklist

Coursera specialization

1. TensorFlow Developer skills
2. Building and training Neural Network models using TensorFlow 2.x
3. Image Classification

4. Natural Language Processing (NLP)

5. Time Series, sequences and predictions

Course 1: Intro to TensorFlow for AI, ML and Deep Learning

Course 2: Convolutional Neural Networks in TensorFlow

Course 3: Natural Language Processing in TensorFlow

Course 4: Sequences, Time Series and Prediction

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Course 1: Intro to TensorFlow for AI, ML and Deep Learning

In this course you will learn about:

- Machine Learning/Deep Learning Paradigms
- Building your first TensorFlow model
- How to solve Computer Vision problems with a few lines of code
- Handling complex images

Course 2: Convolutional Neural Networks in TensorFlow

In this course you will learn about:

- Exploring larger datasets

- Augmentation techniques

- Transfer Learning

- Multiclass Classifications

Course 3: Natural Language Processing in TensorFlow

In this course you will learn about:

- Detecting Sentiment in text
- Word embeddings
- Sequence Models
- Generating poetry with Sequence Models

Course 4: Sequences, Time Series and Prediction

In this course you will learn about:

- Time Series techniques

- Metrics for evaluating Time Series models performance

- Deep Neural Network for Time Series

- Recurrent Neural Network for Time Series

- Real-world time series data

Hands-on practice

At the end of the specialization, you will have build many useful models, including:

- Distinguishing objects or animals in pictures
- Identifying positive or negative movie reviews
- Generating poetry
- Predicting the temperature in a city

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Share your accomplishment

Share your certificate on your resume/ on LinkedIn

TensorFlow Certificate Network

Optional: Appear on the TensorFlow Certificate Network [map](#)

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Thank you.

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