TensorFlow Developer Certificate Differentiate yourself

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01

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.

^{*} Source: <u>2022 StackOverflow Developer Survey</u>

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

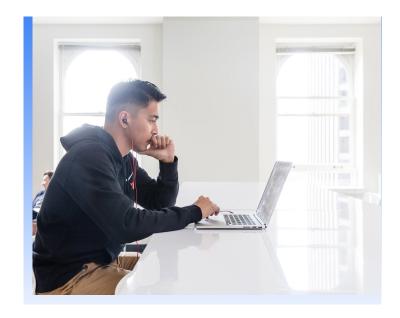
The goal of this certificate is to provide everyone in the world the opportunity to showcase their expertise in ML in an increasingly Al-driven global job market

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

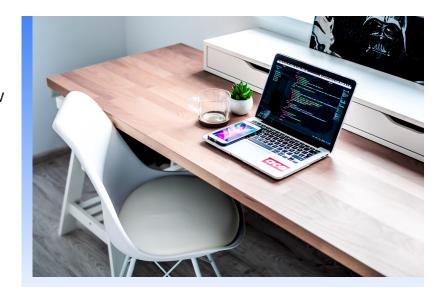


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Description What is the TF certificate?

It is a "hands-on" exam

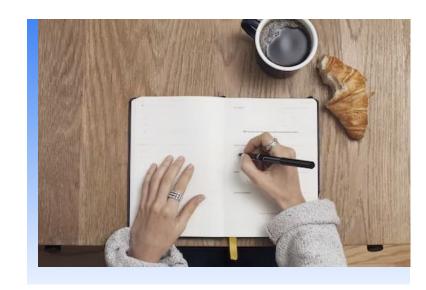
- You will be required to write code for this exam
- No multiple-choice questions
- You will be asked to create models with TensorFlow for some specific tasks.



Skills checklist

The TensorFlow Developer Certificate exam will test you on:

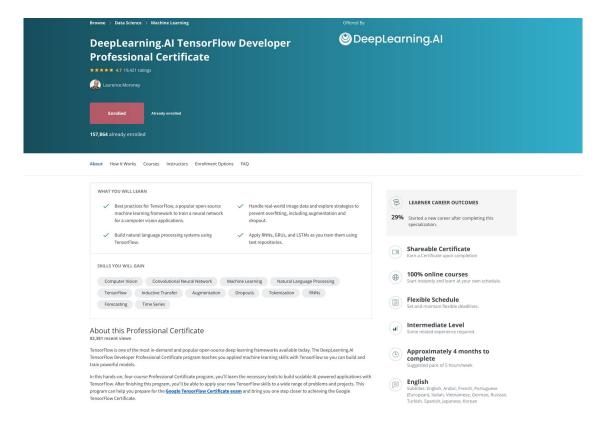
- 1. TensorFlow Developer skills
- Building and training Neural Network models using TensorFlow 2.x
- 3. Image Classification
- 4. Natural Language Processing (NLP)
- 5. Time Series, sequences and predictions



03

How to prepare

DeepLearning.Al TensorFlow Developer Professional Certificate



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

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

- 4. Natural Language Processing (NLP)
- Time Series, sequences and predictions

Coursera specialization

- 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

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

- 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

- Exploring larger datasets
- Augmentation techniques
- Transfer Learning
- Multiclass Classifications

Course 3: Natural Language Processing in TensorFlow

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

Course 4: Sequences, Time Series and Prediction

- 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

04

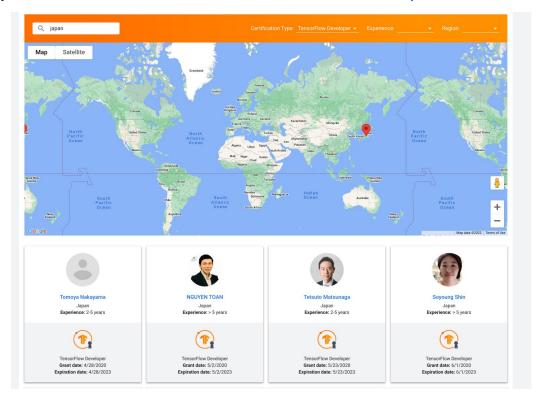
Share your accomplishment

Share your certificate on your resume/ on LinkedIn



TensorFlow Certificate Network

Optional: Appear on the TensorFlow Certificate Network map





Thank you.