

Sep 28, 2021

SS Nitin Hariharan

has successfully completed

Machine Learning with Python

an online non-credit course authorized by IBM and offered through Coursera

COURSE CERTIFICATE



Doel A. g Sastars

Saeed Aghabozorgi Sr. Data Scientist IBM Joseph Santarcangelo Senior Data Scientist IBM

Verify at: https://coursera.org/verify/ET8HDRH9TBU6



Oct 15, 2021

SS Nitin Hariharan

has successfully completed

Introduction to Deep Learning & Neural Networks with Keras

an online non-credit course authorized by IBM and offered through Coursera

COURSE CERTIFICATE



Alex Aklson, Ph.D. Data Scientist

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Oct 19, 2021

SS Nitin Hariharan

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Deep Neural Networks with PyTorch

an online non-credit course authorized by IBM and offered through Coursera

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WITH HONORS



Joseph Santarcangelo Senior Data Scientist

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Oct 23, 2021

SS Nitin Hariharan

has successfully completed

Building Deep Learning Models with TensorFlow

an online non-credit course authorized by IBM and offered through Coursera

COURSE CERTIFICATE



Agrico MM

Alex Aklson Romeo Kienzler Samaya Madhavan

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Oct 21, 2021

SS Nitin Hariharan

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AI Capstone Project with Deep Learning

an online non-credit course authorized by IBM and offered through Coursera

COURSE CERTIFICATE



Agy

Alex Aklson, Ph.D.
Data Scientist

Joseph Santarcangelo Senior Data Scientist

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5 Courses



Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization

Structuring Machine Learning Projects

Convolutional Neural Networks

Sequence Models



Apr 5, 2022

SS Nitin Hariharan

has successfully completed the online, non-credit Specialization

Deep Learning

Congratulations! You have completed all 5 courses of the Deep Learning Specialization. In this Specialization, you built neural network architectures such as Convolutional Neural Networks, Recurrent Neural Networks, LSTMs, Transformers, and learned how to make them better with strategies such as Dropout, BatchNorm, and Xavier/He initialization. You mastered these theoretical concepts, learned their industry applications using Python and TensorFlow, and tackled real-world cases such as speech recognition, music synthesis, chatbots, machine translation, natural language processing, and more. You are now familiar with the capabilities and challenges of deep learning. You are ready to take the definitive step in the world of Al and participate in the development of leading-edge technology.

Andrew Ng, Founder, DeepLearning.Al

Kian Katanforoosh Co-founder, Workera

Younes Bensouda Mourri Instructor of Al, Stanford University

The online specialization named in this certificate may draw on material from courses taught on-campus, but the included courses are not equivalent to on-campus courses. Participation in this online specialization does not constitute enrollment at this university. This certificate does not confer a University grade, course credit or degree, and it does not verify the identity of the learner.

Verify this certificate at: https://coursera.org/verify/specializat ion/MTUJ9X89YXJ2



4 Courses

Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning

Convolutional Neural Networks in TensorFlow

Natural Language Processing in TensorFlow

Sequences, Time Series and Prediction



Nov 30, 2021

SS Nitin Hariharan

has successfully completed the online, non-credit Professional Certificate

DeepLearning.Al TensorFlow Developer

Congratulations! You have completed all 4 courses of the DeepLearning. Al Tensor Flow Developer Professional Certificate program. As part of this Professional Certificate program, you have learned: how to build and train neural networks using Tensor Flow, how to improve network performance using convolutions as you train it to identify real-world images, how to teach machines to understand, analyze, and respond to human speech with natural language processing systems, and more! These, and other Tensor Flow concepts, are going to be at the forefront of the coming transformation to an Al-powered future.



Laurence Moroney Lead Al Advocate Google

Andrew Ng
Founder
DeepLearning.Al

The online specialization named in this certificate may draw on material from courses taught on-campus, but the included courses are not equivalent to on-campus courses. Participation in this online specialization does not constitute enrollment at this university. This certificate does not confer a University grade, course credit or degree, and it does not verify the identity of the learner.

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Stanford ONLINE

Jul 20, 2022

SS Nitin Hariharan

has successfully completed

Supervised Machine Learning: Regression and Classification

an online non-credit course authorized by DeepLearning.AI and Stanford University and offered through Coursera

COURSE CERTIFICATE



Andrew Ng, Instructor, DeepLearning.AI
Eddy Shyu, Curriculum Architect, DeepLearning.AI
Aarti Bagul and Geoff Ladwig, Curriculum Engineers, DeepLearning.AI

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Stanford ONLINE

Jan 27, 2023

SS Nitin Hariharan

has successfully completed

Advanced Learning Algorithms

an online non-credit course authorized by DeepLearning.AI and Stanford University and offered through Coursera

COURSE CERTIFICATE



Andrew Ng, Instructor, Deep Learning AI

Andrew Ng, Instructor, DeepLearning.AI
Eddy Shyu, Curriculum Architect, DeepLearning.AI
Aarti Bagul and Geoff Ladwig, Curriculum Engineers, DeepLearning.AI

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