

3 Courses

Supervised Machine Learning: Regression and Classification

Advanced Learning Algorithms

Unsupervised Learning, Recommenders, Reinforcement Learning





Oct 2, 2022

HUA ZHENG

has successfully completed the online, non-credit Specialization

Machine Learning

Congratulations on completing all three courses of the Machine Learning Specialization! You studied modern machine learning concepts, including supervised learning (linear regression, logistic regression, neural networks, decision trees), unsupervised learning (clustering, anomaly detection), recommender systems, and reinforcement learning. You learned some of the best practices for building machine learning models. You've also gained practical skills to apply machine learning techniques to challenging real-world problems. Now #BreakIntoAI and start building your career in machine learning!

ndrew Ng Instruct

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

Verify this certificate at: https://coursera.org/verify/specializat ion/2IO85FE24H74



5 Courses



Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization

Structuring Machine Learning Projects

Convolutional Neural Networks

Sequence Models



Sep 18, 2022

HUA ZHENG

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

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Verify this certificate at: https://coursera.org/verify/specializat ion/HLS96KVI7AOB



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



Sep 17, 2022

HUA ZHENG

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

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