

5 Courses



Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization

Structuring Machine Learning Projects

Convolutional Neural Networks

Sequence Models



Jul 15, 2020

Muhammad Ali Sadiq

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: coursera.org/verify/specialization/2R8PJTD6FFJT



4 Courses



Data Science Methodology

Databases and SQL for Data Science with Python



Jul 23, 2020

Muhammad Ali Sadiq

has successfully completed the online, non-credit Specialization

Introduction to Data Science

In this Specialization learners developed foundational Data Science skills to prepare them for a career or further learning that involves more advanced topics in Data Science. The specialization entailed understanding what is Data Science is and the various kinds of activities that a Data Scientist's perform. It familiarized learners with various open source tools, like Jupyter notebooks, used by Data Scientists. It taught them about methodology involved in tackling data science problems. The specialization also provided knowledge of relational database concepts and the use of SQL to query databases. Learners completed hands-on labs and projects to apply their newly acquired skills and knowledge.



Rav Ahuja Al & Data Science Program Director IBM Skills Network

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Verify this certificate at: coursera.org/verify/specialization/Z4NE9A5WCWYY



May 8, 2020

Muhammad Ali Sadiq

has successfully completed

Tools for Data Science

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

COURSE CERTIFICATE



Maureen McElaney
Romeo Kienzler

Svetlana Levitan

Verify at coursera.org/verify/Z4HLTPRTLJ7X



Aug 6, 2020

Muhammad Ali Sadiq

has successfully completed

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

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



Lourence Moroney

Laurence Moroney Lead AI Advocate, Google

Verify at coursera.org/verify/YTGL2UXVL2UQ



Jun 17, 2020

Muhammad Ali Sadiq

has successfully completed

Python for Data Science, AI & Development

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

COURSE CERTIFICATE



Joseph Santarcangelo Senior Data Scientist

Verify at coursera.org/verify/WD2PRPL6BLNL



Jul 23, 2020

Muhammad Ali Sadiq

has successfully completed

Databases and SQL for Data Science with Python

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

COURSE CERTIFICATE



Que Muy

Rav Ahuja Global Program Director, Skills Network Hima Vasudevan IBM

Verify at coursera.org/verify/NXWK6R4ZM8LY



Jun 23, 2020

Muhammad Ali Sadiq

has successfully completed

Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization

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



John Ng

Andrew Ng, Founder, Deep Learning. AI & Co-founder, Coursera Kian Katanforoosh, Co-founder, Workera Younes Bensouda Mourri, Instructor of AI, Stanford University

Verify at coursera.org/verify/LWG5SDJ5FU5G



Jun 1, 2020

Muhammad Ali Sadiq

has successfully completed

Data Science Methodology

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

COURSE CERTIFICATE



Alex Aklson, Ph.D. Data Scientist

Polong Lin Data Scientist, IBM

Verify at coursera.org/verify/L3U79Q4WHMWF



Jun 24, 2020

Muhammad Ali Sadiq

has successfully completed

Structuring Machine Learning Projects

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



John Ng

Andrew Ng, Founder, Deep Learning. AI & Co-founder, Coursera Kian Katanforoosh, Co-founder, Workera Younes Bensouda Mourri, Instructor of AI, Stanford University

 $Verify\ at\ coursera.org/verify/JKDB59HKNTRV$



Jul 15, 2020

Muhammad Ali Sadiq

has successfully completed

Sequence Models

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



John Ng

Andrew Ng, Founder, Deep Learning.AI
Kian Katanforoosh, Co-founder, Workera
Younes Bensouda Mourri, Instructor of AI, Stanford University

Verify at coursera.org/verify/F397TS9ER56J



Jun 13, 2020

Muhammad Ali Sadiq

has successfully completed

Neural Networks and Deep Learning

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



John Ng

Andrew Ng, Founder, Deep Learning. AI & Co-founder, Coursera Kian Katanforoosh, Co-founder, Workera Younes Bensouda Mourri, Instructor of AI, Stanford University

Verify at coursera.org/verify/8UTCR37GJL37



Jul 2, 2020

Muhammad Ali Sadiq

has successfully completed

Convolutional Neural Networks

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



John Ng

Andrew Ng, Founder, Deep Learning. AI & Co-founder, Coursera Kian Katanforoosh, Co-founder, Workera Younes Bensouda Mourri, Instructor of AI, Stanford University

Verify at coursera.org/verify/S9K622CZCLKH



May 8, 2020

Muhammad Ali Sadiq

has successfully completed

Front-End Web Development with React

an online non-credit course authorized by The Hong Kong University of Science and Technology and offered through Coursera



J. k. muppaler

Jogesh K. Muppala
Associate Professor, Department of Computer Science and Engineering
The Hong Kong University of Science and Technology

Verify at coursera.org/verify/SWB6FEV3DME9



May 1, 2020

Muhammad Ali Sadiq

has successfully completed

Front-End Web UI Frameworks and Tools: Bootstrap 4

an online non-credit course authorized by The Hong Kong University of Science and Technology and offered through Coursera



J. k. mippala

Jogesh K. Muppala
Associate Professor, Department of Computer Science and Engineering
The Hong Kong University of Science and Technology

Verify at coursera.org/verify/YQ7KQUR2TV7Q

Microsoft Certified Data Analyst Associate

MUHAMMAD ALI SADIQ

Has successfully completed the requirements to be recognized as a Microsoft Certified: Data Analyst Associate.

Date of achievement: March 31, 2021

Valid until: March 31, 2023



W - S

Satya Nadella Chief Executive Officer

