

# Certificate of Completion

For: Karim Elgammal

**Python: The Big Picture** 

by Jason Olson

Duration: 1 hrs 5 min

Completed: Nov 11, 2019

REP ID 4127







Certificate of Completion Congratulations, Karim Elgammal

# **Introduction to Quantum Computing**

Course completed on Nov 12, 2019 • 1 hour 25 min

By continuing to learn, you have expanded your perspective, sharpened your skills, and made yourself even more in demand.

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Certificate Id: AYnCmg-9bUtIOKOwKqqULitMUduM



# Certificate of Completion

For: Karim Elgammal

**Data Science: The Big Picture** 

by Matthew Renze

Duration: 1 hrs 9 min

Completed: Nov 12, 2019

REP ID 4127







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# **Understanding Business**

Course completed on Nov 20, 2019 • 43 min

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#### **Learning MATLAB**

Course completed on Jun 7, 2018 • 1 hour 13 min

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Certificate Id: AehrJJCy3Wb7bzn0wtbEpvlCx383



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# **Digital Transformation**

Course completed on Nov 12, 2019 • 47 min

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Certificate Id: AQrkHgqf9wlwvwBmTN9Em2\_WqgBG



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# Charlene Li on Digital Leadership

Course completed on Nov 14, 2019 • 58 min

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**5 Courses** 

How Google does Machine Learning

Launching into Machine Learning

Intro to TensorFlow

**Feature Engineering** 

Art and Science of Machine Learning



08/13/2018

#### Karim Elgammal

has successfully completed the online, non-credit Specialization

# Machine Learning with TensorFlow on Google Cloud Platform

This five-course online specialization teaches course participants how to write distributed machine learning models that scale in Tensorflow, scale out the training of those models. and offer high-performance predictions. Also featured is the conversion of raw data to features in a way that allows ML to learn important characteristics from the data and bring human insight to bear on the problem. It also teaches how to incorporate the right mix of parameters that yields accurate, generalized models and knowledge of the theory to solve specific types of ML problems. Course participants experimented with end-to-end ML, starting from building an ML-focused strategy and progressing into model training, optimization, and productionalization with hands-on labs using Google Cloud Platform.

Google Cloud Training

Verify this certificate at: coursera.org/verify/specialization/3UUC87NRN3NJ

# Stanford ONLINE

08/05/2018

# Karim Elgammal

has successfully completed

#### Machine Learning

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

COURSE CERTIFICATE



Associate Professor Andrew Ng Computer Science Department Stanford University

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08/08/2018

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#### Launching into Machine Learning

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

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Google Cloud Training

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Intro to TensorFlow

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08/07/2018

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How Google does Machine Learning

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