

CS50 Certificate

CS50 congratulates

Chng Soon Siang

on completion of CS50's Introduction to
Artificial Intelligence with Python,
including twelve projects and seven quizzes.

Awarded from Cambridge, Massachusetts,
in the year two thousand twenty-one.

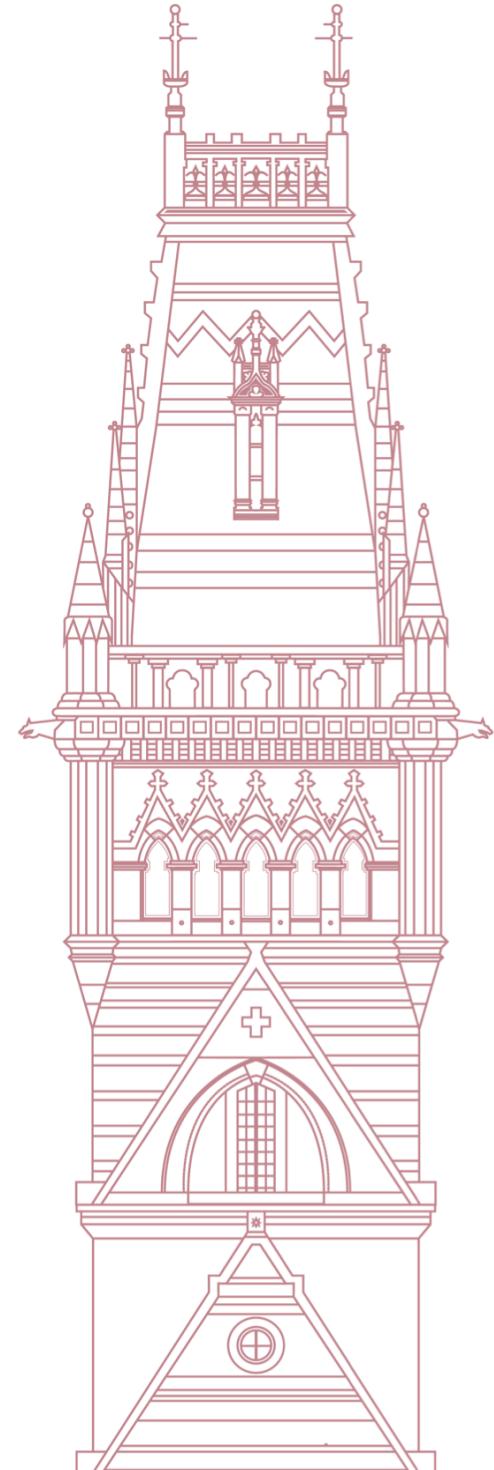


David J. Malan

Gordon McKay Professor of the Practice of Computer Science
Harvard University



<https://cs50.harvard.edu/certificates/5ae95ec2-03fb-4e8f-8aef-f7e7277d2b46>





3 Courses

Getting started with
TensorFlow 2

Customising your models
with TensorFlow 2

Probabilistic Deep Learning
with TensorFlow 2

Imperial College
London

May 25, 2021

Soon Siang Chng

has successfully completed the online, non-credit Specialization

TensorFlow 2 for Deep Learning

In this Specialization, learners have acquired and honed practical skills in the popular deep learning framework TensorFlow to develop deep learning models for a range of applications such as image classification, language translation and text and image generation. Learners completed programming assignments and capstone projects to apply their knowledge and skills.

kwebster

Dr Kevin Webster
Senior Teaching Fellow
in Statistics

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Verify this certificate at:
coursera.org/verify/specialization/4837QTXR5MZH



Jun 23, 2021

Soon Siang Chng

has successfully completed

Introduction to Machine Learning in Production

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

A handwritten signature in blue ink that reads "Andrew Ng".

Andrew Ng
Founder, DeepLearning.AI
Co-founder, Coursera

COURSE CERTIFICATE



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TensorFlow Developer Engineer, Google

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Jul 1, 2021

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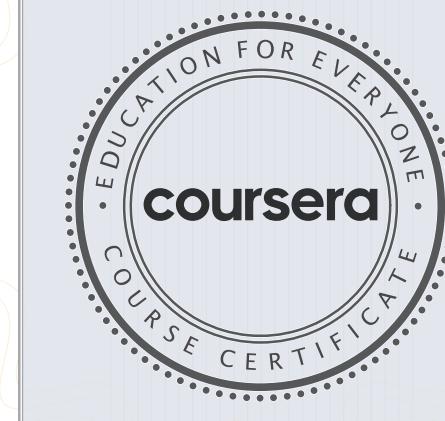
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4 Courses

**Browser-based Models with
TensorFlow.js**

**Device-based Models with
TensorFlow Lite**

**Data Pipelines with
TensorFlow Data Services**

**Advanced Deployment
Scenarios with TensorFlow**



Nov 8, 2020

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TensorFlow: Data and Deployment

In this specialization, you continued to develop your understanding of machine learning with TensorFlow: Data and Deployment. You have gone beyond basic modeling and learned how to train and run your models within a browser, optimize machine learning models for mobile devices, and create effective data pipelines with TensorFlow Data Services. Now that you've learned the various ways to deploy your models, you're well-prepared to take your models into the hands of real people on all kinds of devices!

Laurence Moroney

Laurence Moroney
Staff AI Advocate
Google Brain

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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



Aug 2, 2020

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DeepLearning.AI TensorFlow Developer

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5 Courses



07/14/2020

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Neural Networks and Deep Learning

Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization

Structuring Machine Learning Projects

Convolutional Neural Networks

Sequence Models

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Adjunct Professor
Andrew Ng
Computer Science

Deep Learning

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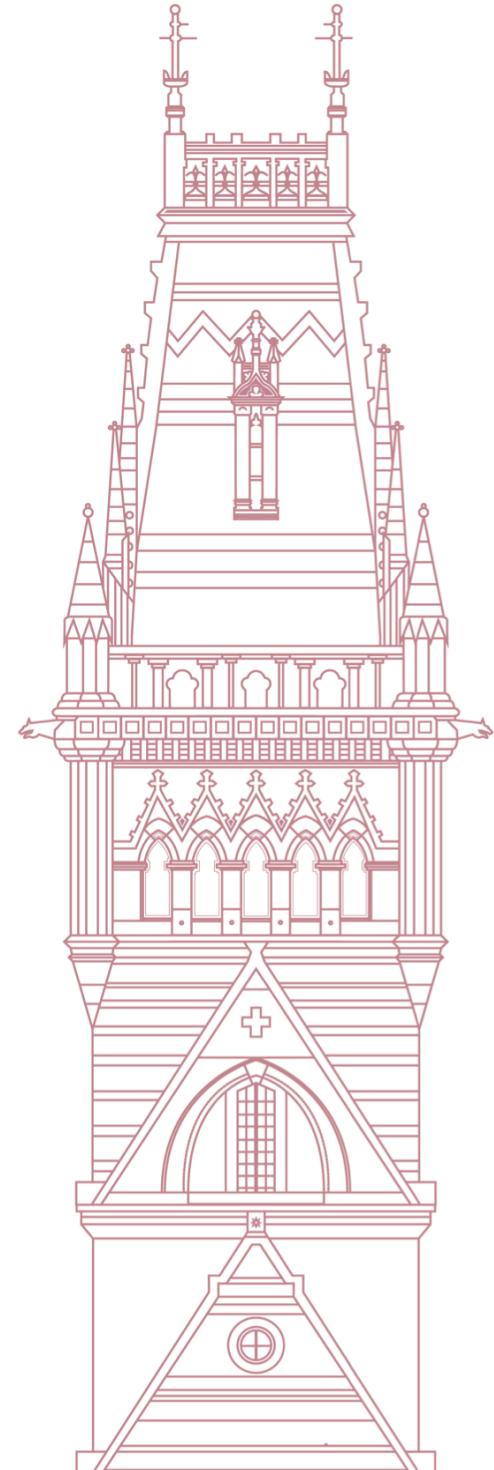


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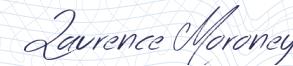
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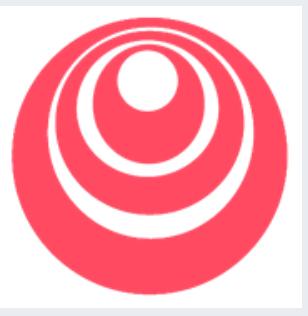
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5 Courses

Programming for Everybody
(Getting Started with Python)

Python Data Structures

Using Python to Access Web
Data

Using Databases with Python

Capstone: Retrieving,
Processing, and Visualizing Data
with Python



04/09/2020

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Python for Everybody

This Specialization builds on the success of the Python for Everybody course and will introduce fundamental programming concepts including data structures, networked application program interfaces, and databases, using the Python programming language. In the Capstone Project, you'll use the technologies learned throughout the Specialization to design and create your own applications for data retrieval, processing, and visualization.

A handwritten signature in black ink that reads "Charles".

Charles Severance
Clinical Associate
Professor, School of
Information
University of Michigan

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