



HIGHER SCHOOL OF ECONOMICS  
NATIONAL RESEARCH UNIVERSITY

Jul 9, 2019

# Shashank Shirol

has successfully completed

## Algorithmic Toolbox

an online non-credit course authorized by University of California San Diego and HSE University and offered through Coursera

Alexander S. Kulikov, Visiting Professor; Michael Levin, Associate Professor; Neil Rhodes, Adjunct Faculty; Pavel A. Pevzner, Ronald R. Taylor Distinguished Professor of Computer Science, Director, NIH Center for Computational Mass Spectrometry; Daniel M Kane, Assistant Professor, Computer Science and Engineering at the University of California, San Diego

## COURSE CERTIFICATE



Verify at [coursera.org/verify/UKLMR2BMZ7G8](https://coursera.org/verify/UKLMR2BMZ7G8)

Coursera has confirmed the identity of this individual and their participation in the course.

# UC San Diego



HIGHER SCHOOL OF ECONOMICS  
NATIONAL RESEARCH UNIVERSITY

Apr 18, 2020

## Shashank Shirol

has successfully completed

### Algorithms on Graphs

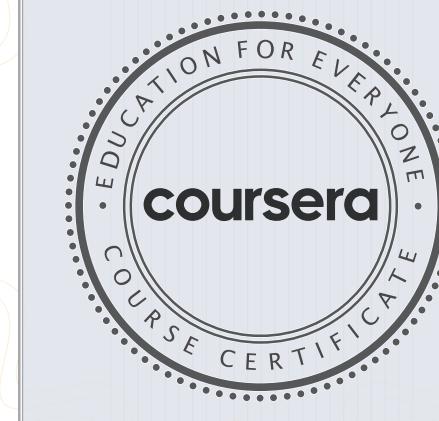
an online non-credit course authorized by University of California San Diego and HSE University and offered through Coursera



A handwritten signature in black ink, appearing to read "Alexander S. Kulikov, Michael Levin, Neil Rhodes".

Alexander S. Kulikov, Visiting Professor; Michael Levin, Associate Professor; Neil Rhodes, Adjunct Faculty; Daniel M Kane, Assistant Professor, Computer Science and Engineering at the University of California, San Diego

## COURSE CERTIFICATE



Verify at [coursera.org/verify/FSWCCVP3PE4G](https://coursera.org/verify/FSWCCVP3PE4G)

Coursera has confirmed the identity of this individual and their participation in the course.



Apr 6, 2019

Shashank Shirol

has successfully completed

Applied Machine Learning in Python

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

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

Kevyn Collins-Thompson  
Associate Professor  
School of Information

COURSE  
CERTIFICATE



Verify at [coursera.org/verify/2ZXC66URGDBJ](https://coursera.org/verify/2ZXC66URGDBJ)

Coursera has confirmed the identity of this individual and their participation in the course.



Jun 17, 2021

Shashank Shirol

has successfully completed

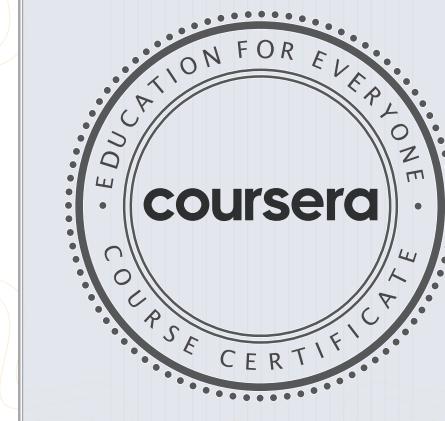
Building Web Applications in Django

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

A handwritten signature in black ink that appears to read "Charles Severance".

Charles Severance  
Clinical Professor, School of Information  
University of Michigan

COURSE  
CERTIFICATE



Verify at [coursera.org/verify/DPM9AL26KYQJ](https://coursera.org/verify/DPM9AL26KYQJ)

Coursera has confirmed the identity of this individual and their participation in the course.



May 15, 2019

## Shashank Shirol

has successfully completed

### Convolutional Neural Networks in TensorFlow

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

*Laurence Moroney*

Laurence Moroney  
Lead AI Advocate, Google

## COURSE CERTIFICATE



Verify at [coursera.org/verify/Y8M6RGJ96DK9](https://coursera.org/verify/Y8M6RGJ96DK9)

Coursera has confirmed the identity of this individual and their participation in the course.



May 21, 2019

## Shashank Shirol

has successfully completed

### Convolutional Neural Networks

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

A handwritten signature in blue ink that appears to read "Andrew Ng".

---

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

## COURSE CERTIFICATE



Verify at [coursera.org/verify/7MRNU2CP2KM5](https://coursera.org/verify/7MRNU2CP2KM5)

Coursera has confirmed the identity of this individual and their participation in the course.



Dec 26, 2018

## Shashank Shirol

has successfully completed

### Introduction to CSS3

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

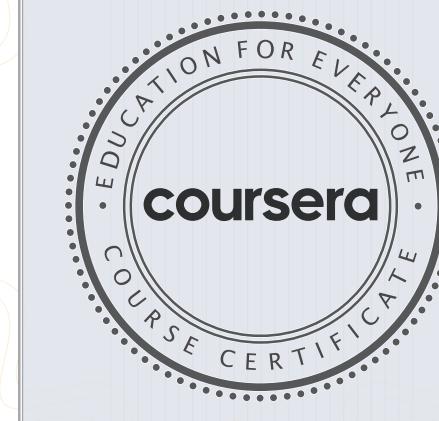
*Colleen van Lent*

Colleen van Lent, Ph.D.  
Lecturer  
School of Information, University of Michigan

*Charles Severance*

Charles Severance  
Clinical Professor, School of Information  
University of Michigan

## COURSE CERTIFICATE



Verify at [coursera.org/verify/X59PESQ63YAR](https://coursera.org/verify/X59PESQ63YAR)

Coursera has confirmed the identity of this individual and their participation in the course.



Jan 29, 2019

Shashank Shirol

has successfully completed

Data Collection and Processing with Python

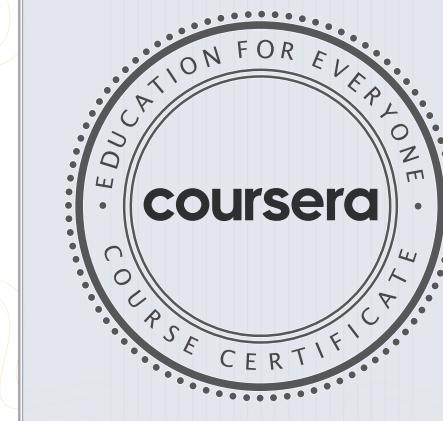
an online non-credit course authorized by University of Michigan and offered through Coursera

*Paul Resnick* *Jaclyn Cohen*

Paul Resnick  
Michael D. Cohen Collegiate Professor  
School of Information

Jaclyn Cohen  
Lecturer  
School of Information

COURSE  
CERTIFICATE



Verify at [coursera.org/verify/3BUVT5Y2UZTJ](https://coursera.org/verify/3BUVT5Y2UZTJ)

Coursera has confirmed the identity of this individual and their participation in the course.



JOHNS HOPKINS  
UNIVERSITY

Jun 28, 2018

# Shashank Shirol

has successfully completed

## A Crash Course in Data Science

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



Jeffrey Leek, PhD, Brian Caffo, PhD, MS, Roger D. Peng, PhD

Some online courses may draw on material from courses taught on campus but are not equivalent to on-campus courses. This certificate does not affirm that this learner was enrolled as a student at Johns Hopkins University in any way. It does not confer a JHU grade, course credit or degree; establish any relationship between this learner and JHU or other JHU affiliate; enroll or register this learner at JHU or other JHU affiliate or in any course offered by JHU; or entitle this learner to access or use the resources of JHU or other JHU affiliates beyond the online courses provided by Coursera.

## COURSE CERTIFICATE



Verify at [coursera.org/verify/YTPHZFVN2VLW](https://coursera.org/verify/YTPHZFVN2VLW)

Coursera has confirmed the identity of this individual and their participation in the course.

This certificate does not affirm that this learner was enrolled as a student at Johns Hopkins University. It does not confer a JHU grade, course credit or degree; establish a relationship between this learner and JHU; enroll or register this learner at JHU or in any course offered by JHU; or entitle this learner to access or use resources beyond the online courses provided by Coursera.



Jan 17, 2019

Shashank Shirol

has successfully completed

Introduction to Data Science in Python

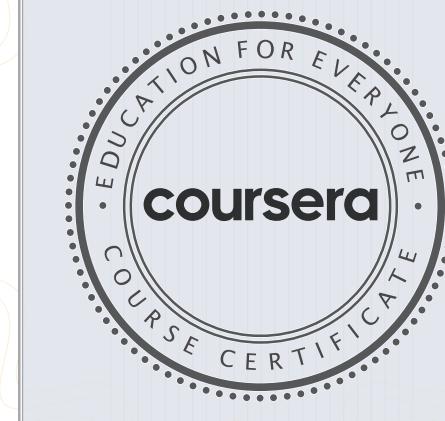
an online non-credit course authorized by University of Michigan and offered through Coursera

A handwritten signature in black ink that appears to read "Christopher Brooks".

---

Christopher Brooks  
Research Assistant Professor  
School of Information

COURSE  
CERTIFICATE



Verify at [coursera.org/verify/DZ5QYP42W5PT](https://coursera.org/verify/DZ5QYP42W5PT)

Coursera has confirmed the identity of this individual and their participation in the course.



4 Courses

Web Application Technologies and Django

Building Web Applications in Django

Django Features and Libraries

Using JavaScript, JQuery, and JSON in Django



Jun 28, 2021

## Shashank Shirol

has successfully completed the online, non-credit Specialization

# Django for Everybody

This specialization introduced Python programmers to building web sites using the Django library. Across the four courses, students learned HTML, CSS, SQL, Django, JavaScript, jQuery and JSON web services. Students built online web sites using Django that were graded throughout the four courses.. This series provides excellent preparation for learning other ways to build web applications using technologies like PHP, Flask or Ruby on Rails.

A handwritten signature in black ink that appears to read "Charles".

Charles R. Severance,  
Clinical Professor of  
Information, School of  
Information

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/5HSNPZQ8BK2U](https://coursera.org/verify/specialization/5HSNPZQ8BK2U)



Jun 23, 2021

## Shashank Shirol

has successfully completed

### Django Features and Libraries

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

A handwritten signature in black ink that appears to read "Charles Severance".

Charles Severance  
Clinical Professor, School of Information  
University of Michigan

### COURSE CERTIFICATE



Verify at [coursera.org/verify/7ZHPYWQQNN3B](https://coursera.org/verify/7ZHPYWQQNN3B)

Coursera has confirmed the identity of this individual and their participation in the course.



Nov 5, 2020

# Shashank Shirol

has successfully completed with honors

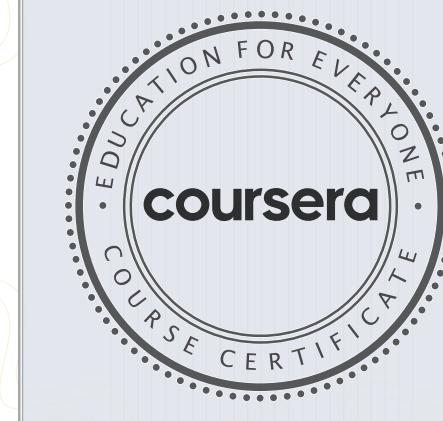
## Deep Neural Networks with PyTorch

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

Joseph Santarcangelo  
Senior Data Scientist  
IBM

## COURSE CERTIFICATE

WITH HONORS



Verify at [coursera.org/verify/KLY4UE5S7DN8](https://coursera.org/verify/KLY4UE5S7DN8)

Coursera has confirmed the identity of this individual and their participation in the course.



Jul 22, 2020

# Shashank Shirol

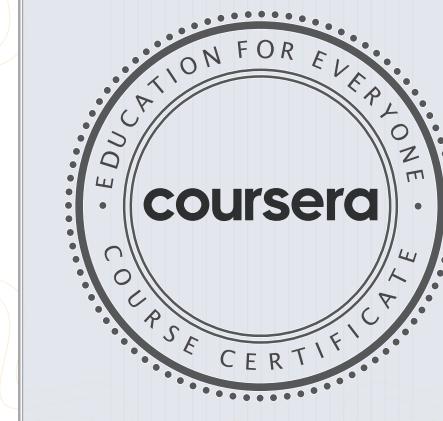
has successfully completed

## Build a Google Firebase Web Application

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

Harrison Kong  
Subject Matter Expert / Instructor

## COURSE CERTIFICATE



Verify at [coursera.org/verify/J586FG9CTPER](https://coursera.org/verify/J586FG9CTPER)

Coursera has confirmed the identity of this individual and their participation in the course.



Dec 21, 2018

## Shashank Shirol

has successfully completed

### Introduction to HTML5

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

*Colleen van Lent*

Colleen van Lent, Ph.D.  
Lecturer  
School of Information, University of Michigan

*Charles Severance*

Charles Severance  
Clinical Professor, School of Information  
University of Michigan

## COURSE CERTIFICATE



Verify at [coursera.org/verify/ED7AS3Q86UKL](https://coursera.org/verify/ED7AS3Q86UKL)

Coursera has confirmed the identity of this individual and their participation in the course.



# RICE UNIVERSITY

Aug 1, 2018

## Shashank Shirol

has successfully completed

An Introduction to Interactive Programming in  
Python (Part 1)

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



A handwritten signature in black ink, appearing to read "Joe Warren Scott Rixner John Greiner Steven Wong".

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Joe Warren, Scott Rixner, John Greiner, Steven Wong  
Department of Computer Science  
Rice University

COURSE  
CERTIFICATE



Verify at [coursera.org/verify/JWPZ24GY2RS9](https://coursera.org/verify/JWPZ24GY2RS9)

Coursera has confirmed the identity of this individual and their participation in the course.



# RICE UNIVERSITY

Nov 16, 2018

## Shashank Shirol

has successfully completed

An Introduction to Interactive Programming in  
Python (Part 2)

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

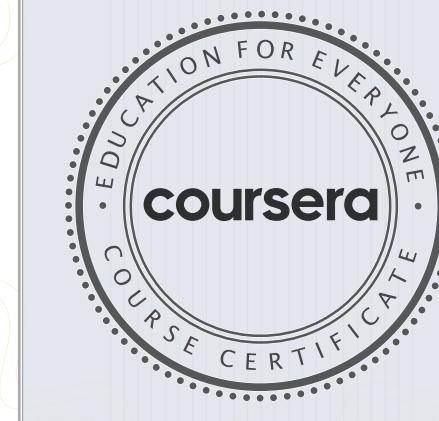


A handwritten signature in black ink, appearing to read "Joe Warren Scott Rixner John Greiner Steven Wong".

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Joe Warren, Scott Rixner, John Greiner, Steven Wong  
Department of Computer Science  
Rice University

COURSE  
CERTIFICATE



Verify at [coursera.org/verify/44KNPYD2VLZ](https://coursera.org/verify/44KNPYD2VLZ)

Coursera has confirmed the identity of this individual and their participation in the course.



# University of Colorado

Boulder | Colorado Springs | Denver | Anschutz Medical Campus

Jun 21, 2018

## Shashank Shirol

has successfully completed

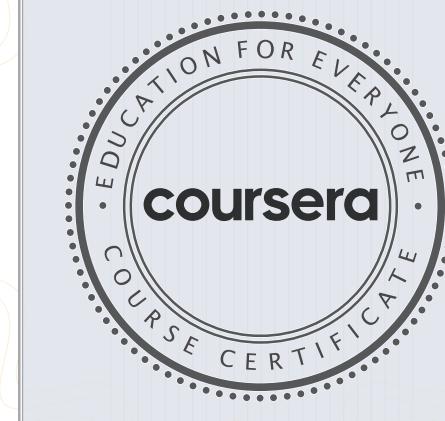
### Introduction to C# Programming and Unity

an online non-credit course authorized by University of Colorado System and offered through Coursera



Tim "Dr. T" Chamillard  
Associate Professor of Computer Science  
Program Director, Bachelor of Innovation(TM) in Game Design and Development  
University of Colorado Colorado Springs

## COURSE CERTIFICATE



Verify at [coursera.org/verify/XKTQVEEZ7N8N](https://coursera.org/verify/XKTQVEEZ7N8N)

Coursera has confirmed the identity of this individual and their participation in the course.



May 13, 2019

## Shashank Shirol

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

*Laurence Moroney*

Laurence Moroney  
Lead AI Advocate, Google

## COURSE CERTIFICATE



Verify at [coursera.org/verify/NAP49VMBJ3BB](https://coursera.org/verify/NAP49VMBJ3BB)

Coursera has confirmed the identity of this individual and their participation in the course.



Dec 31, 2018

## Shashank Shirol

has successfully completed

### Interactivity with JavaScript

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

*Colleen van Lent*

Colleen van Lent, Ph.D.  
Lecturer  
School of Information, University of Michigan

*Charles Severance*

Charles Severance  
Clinical Professor, School of Information  
University of Michigan

## COURSE CERTIFICATE



Verify at [coursera.org/verify/LCEKHDNEDX3M](https://coursera.org/verify/LCEKHDNEDX3M)

Coursera has confirmed the identity of this individual and their participation in the course.

# Stanford | ONLINE

Dec 20, 2018

## Shashank Shirol

has successfully completed

### Machine Learning

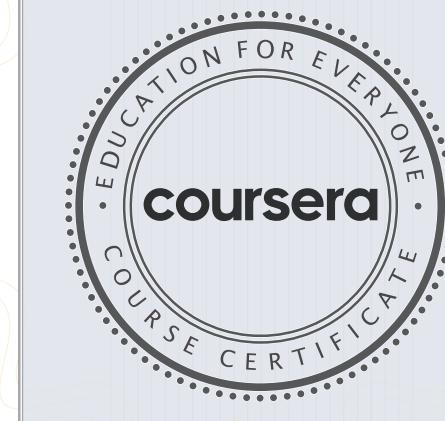
an online non-credit course authorized by Stanford University and offered through Coursera



Associate Professor Andrew Ng  
Computer Science Department  
Stanford University

SOME ONLINE COURSES MAY DRAW ON MATERIAL FROM COURSES TAUGHT ON-CAMPUS BUT THEY ARE NOT EQUIVALENT TO ON-CAMPUS COURSES. THIS STATEMENT DOES NOT AFFIRM THAT THIS PARTICIPANT WAS ENROLLED AS A STUDENT AT STANFORD UNIVERSITY IN ANY WAY. IT DOES NOT CONFER A STANFORD UNIVERSITY GRADE, COURSE CREDIT OR DEGREE, AND IT DOES NOT VERIFY THE IDENTITY OF THE PARTICIPANT.

COURSE  
CERTIFICATE



Verify at [coursera.org/verify/2V6NZTS2M249](https://coursera.org/verify/2V6NZTS2M249)

Coursera has confirmed the identity of this individual and their participation in the course.



Feb 18, 2018

## Shashank Shirol

has successfully completed

### Mathematical Thinking in Computer Science

an online non-credit course authorized by University of California San Diego and HSE University and offered through Coursera

Three handwritten signatures are shown in blue ink. From left to right, they belong to Alexander S. Kulikov, Michael Levin, and Vladimir Podolskii. They are all signed in cursive script.

Alexander S. Kulikov, Visiting Professor, Department of Computer Science and Engineering;  
Michael Levin, Associate Professor, Computer Science;  
Vladimir Podolskii, Associate Professor, Computer Science

## COURSE CERTIFICATE



Verify at [coursera.org/verify/CSBE46YL9G4A](https://coursera.org/verify/CSBE46YL9G4A)

Coursera has confirmed the identity of this individual and their participation in the course.



Mar 28, 2020

## Shashank Shirol

has successfully completed

### Machine Learning Foundations: A Case Study Approach

a MOOC from the University of Washington and offered through Coursera



Two handwritten signatures are shown side-by-side. The signature on the left is "Emily Fox" and the signature on the right is "Carlos Guestrin".

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Emily Fox  
Amazon Professor of Machine Learning  
Statistics

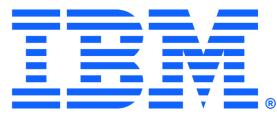
Carlos Guestrin  
Amazon Professor of Machine Learning  
Computer Science and Engineering

## COURSE CERTIFICATE



Verify at [coursera.org/verify/HV3NJW3FDDUV](https://coursera.org/verify/HV3NJW3FDDUV)

Coursera has confirmed the identity of this individual and their participation in the course.



Jun 5, 2019

# Shashank Shirol

has successfully completed

## Machine Learning with Python

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

*Saeed A. gSantarcangelo*

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Saeed Aghabozorgi  
Sr. Data Scientist  
IBM

Joseph Santarcangelo  
Senior Data Scientist  
IBM

## COURSE CERTIFICATE



Verify at [coursera.org/verify/ZY6EFBXS6ZWX](https://coursera.org/verify/ZY6EFBXS6ZWX)

Coursera has confirmed the identity of this individual and their participation in the course.



Jul 8, 2019

## Shashank Shirol

has successfully completed

### Natural Language Processing in TensorFlow

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



A handwritten signature in blue ink that reads "Laurence Moroney".

Laurence Moroney  
Lead AI Advocate, Google

## COURSE CERTIFICATE



Verify at [coursera.org/verify/7TK745M79YX6](https://coursera.org/verify/7TK745M79YX6)

Coursera has confirmed the identity of this individual and their participation in the course.



Oct 2, 2019

## Shashank Shirol

has successfully completed

### Python Classes and Inheritance

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

*Stephen Oney and Paul Resnick*

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Steve Oney  
Assistant Professor  
School of Information

Paul Resnick  
Michael D. Cohen Collegiate Professor  
School of Information

## COURSE CERTIFICATE



Verify at [coursera.org/verify/NAN7D5MDTPR5](https://coursera.org/verify/NAN7D5MDTPR5)

Coursera has confirmed the identity of this individual and their participation in the course.



Feb 21, 2020

Shashank Shirol

has successfully completed

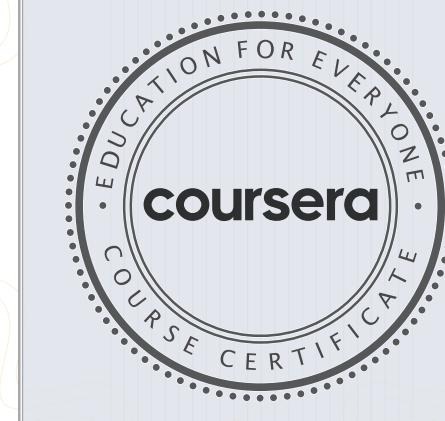
Building Web Applications in PHP

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

A handwritten signature in black ink that appears to read "Charles Severance".

Charles Severance  
Clinical Professor, School of Information  
University of Michigan

COURSE  
CERTIFICATE



Verify at [coursera.org/verify/N7AK9W8SPYQZ](https://coursera.org/verify/N7AK9W8SPYQZ)

Coursera has confirmed the identity of this individual and their participation in the course.



Feb 26, 2019

## Shashank Shirol

has successfully completed

### Applied Plotting, Charting & Data Representation in Python

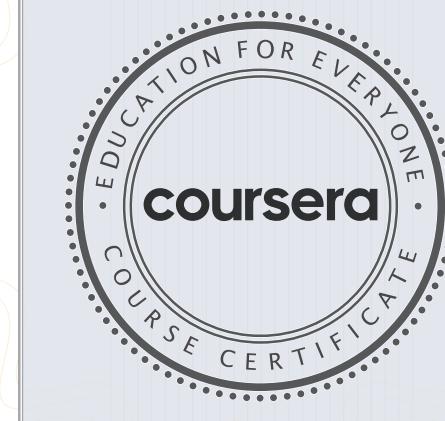
an online non-credit course authorized by University of Michigan and offered through  
Coursera

A handwritten signature in black ink that appears to read "Christopher Brooks".

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Christopher Brooks  
Research Assistant Professor  
School of Information

## COURSE CERTIFICATE



Verify at [coursera.org/verify/VJ3PJMVQHGQC](https://coursera.org/verify/VJ3PJMVQHGQC)

Coursera has confirmed the identity of this individual and their  
participation in the course.



Aug 12, 2018

## Shashank Shirol

has successfully completed

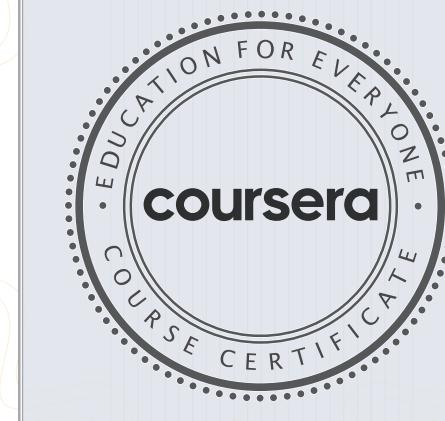
Programming for Everybody (Getting Started with Python)

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

A handwritten signature in black ink that appears to read "Charles Severance".

Charles Severance  
Clinical Professor, School of Information  
University of Michigan

## COURSE CERTIFICATE



Verify at [coursera.org/verify/VFKPYCPAAETQ](https://coursera.org/verify/VFKPYCPAAETQ)

Coursera has confirmed the identity of this individual and their participation in the course.



Aug 17, 2018

## Shashank Shirol

has successfully completed

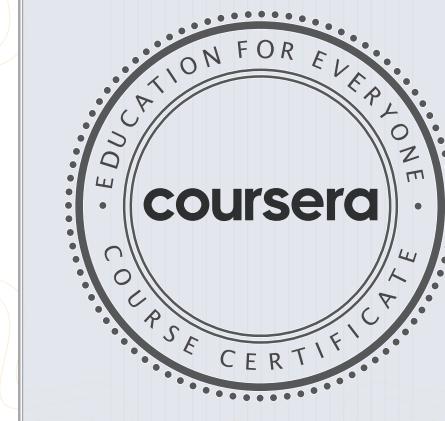
### Python Data Structures

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

A handwritten signature in black ink that appears to read "Charles Severance".

Charles Severance  
Clinical Professor, School of Information  
University of Michigan

### COURSE CERTIFICATE



Verify at [coursera.org/verify/NQX44B9MACCU](https://coursera.org/verify/NQX44B9MACCU)

Coursera has confirmed the identity of this individual and their participation in the course.



Oct 2, 2018

## Shashank Shirol

has successfully completed

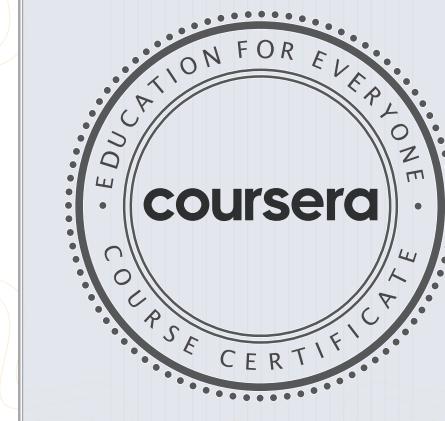
### Using Databases with Python

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

A handwritten signature in black ink that appears to read "Charles Severance".

Charles Severance  
Clinical Professor, School of Information  
University of Michigan

## COURSE CERTIFICATE



Verify at [coursera.org/verify/5U387JGLCJCH](https://coursera.org/verify/5U387JGLCJCH)

Coursera has confirmed the identity of this individual and their participation in the course.



Sep 14, 2018

## Shashank Shirol

has successfully completed

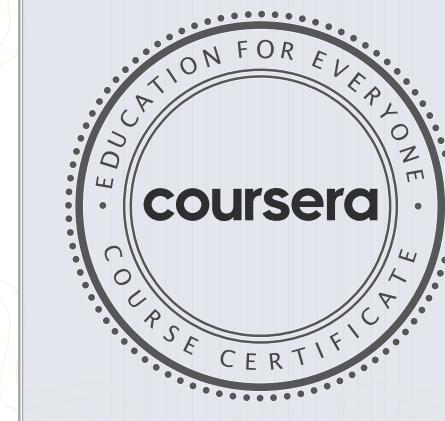
### Using Python to Access Web Data

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

A handwritten signature in black ink that appears to read "Charles Severance".

Charles Severance  
Clinical Professor, School of Information  
University of Michigan

## COURSE CERTIFICATE



Verify at [coursera.org/verify/V5E8NLBF3GG4](https://coursera.org/verify/V5E8NLBF3GG4)

Coursera has confirmed the identity of this individual and their participation in the course.



Oct 19, 2018

## Shashank Shirol

has successfully completed

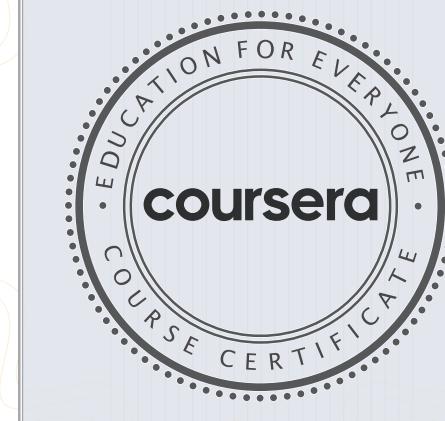
### Capstone: Retrieving, Processing, and Visualizing Data with Python

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

A handwritten signature in black ink that appears to read "Charles Severance".

Charles Severance  
Clinical Professor, School of Information  
University of Michigan

## COURSE CERTIFICATE



Verify at [coursera.org/verify/75CKCQYYHFHV](https://coursera.org/verify/75CKCQYYHFHV)

Coursera has confirmed the identity of this individual and their participation in the course.



Jul 3, 2021

## Shashank Shirol

has successfully completed

### Sequence Models

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

A handwritten signature in blue ink that appears to read "Andrew Ng".

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

## COURSE CERTIFICATE



Verify at [coursera.org/verify/BCYNKR6WS26U](https://coursera.org/verify/BCYNKR6WS26U)

Coursera has confirmed the identity of this individual and their participation in the course.



JOHNS HOPKINS  
UNIVERSITY

Oct 28, 2020

# Shashank Shirol

has successfully completed

## Single Page Web Applications with AngularJS

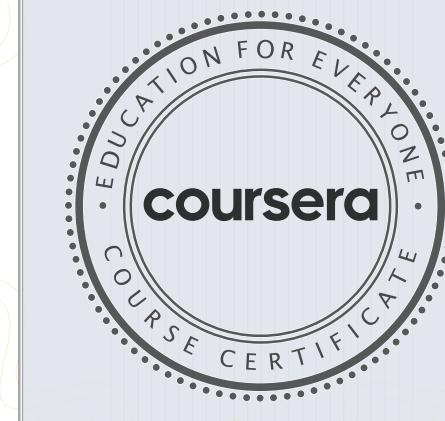
an online non-credit course authorized by Johns Hopkins University and offered through Coursera

Yaakov C.

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Yaakov Chaikin  
Adjunct Professor, Graduate Computer Science  
Whiting School of Engineering  
Johns Hopkins University

## COURSE CERTIFICATE



Verify at [coursera.org/verify/AUMMM6CAHW24](https://coursera.org/verify/AUMMM6CAHW24)

Coursera has confirmed the identity of this individual and their participation in the course.

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A handwritten signature in blue ink that appears to read "Andrew Ng".

---

Andrew Ng, Founder, DeepLearning.AI & Co-founder, Coursera  
Kian Katanforoosh, Co-founder, Workera  
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*Colleen van Lent*

Colleen van Lent, Ph.D.  
Lecturer  
School of Information, University of Michigan

*Charles Severance*

Charles Severance  
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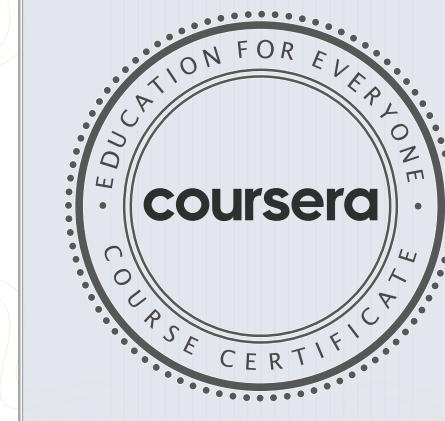
Using JavaScript, JQuery, and JSON in Django

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Charles Severance  
Clinical Professor, School of Information  
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