



Jul 7, 2023

**Nastaran Mehboudi**

has successfully completed

**Convolutional Neural Networks**

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

A blue ink signature of Andrew Ng, written in a cursive style.

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

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Jun 19, 2022

**Nastaran Mehboudi**

has successfully completed

**Neural Networks and Deep Learning**

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

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

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Dec 10, 2022

**Nastaran Mehboudi**

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

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

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

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Jan 20, 2023

**Nastaran Mehboudi**

has successfully completed

**Structuring Machine Learning Projects**

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

A blue ink signature of Andrew Ng.

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

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Jun 6, 2023

**Nastaran Mehboudi**

has successfully completed

**Linear Algebra for Machine Learning and Data Science**

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

A handwritten signature in black ink that reads 'Luis Serrano'.

Luis Serrano, Instructor, Serrano Academy. Anshuman Singh, Curriculum Product Manager, DeepLearning.AI. Elena Sanina, Curriculum Engineer, DeepLearning.AI. Magdalena Bouza, Curriculum Developer, DeepLearning.AI. Obed Nsiah, Curriculum Developer. Lucas Coutinho, Curriculum Developer, DeepLearning.AI

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



5 Courses

Python Basics

Python Functions, Files, and Dictionaries

Data Collection and Processing with Python

Python Classes and Inheritance

Python Project: pillow, tesseract, and opencv



Dec 10, 2022

**Nastaran Mehboudi**

has successfully completed the online, non-credit Specialization

## Python 3 Programming

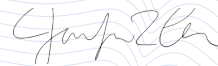
This specialization teaches the fundamentals of programming in Python 3. We will begin at the beginning, with variables, conditionals, and loops, and get to some intermediate material like keyword parameters, list comprehensions, lambda expressions, and class inheritance. You will have lots of opportunities to practice. You will also learn ways to reason about program execution, so that it is no longer mysterious and you are able to debug programs when they don't work. By the end of the specialization, you'll be writing programs that query Internet APIs for data and extract useful information from them. And you'll be able to learn to use new modules and APIs on your own by reading the documentation. That will give you a great launch toward being an independent Python programmer.

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.



Steve Oney  
Assistant Professor  
School of Information

Paul Resnick  
Michael D. Cohen  
Collegiate Professor  
School of Information



Jaclyn Cohen  
Lecturer  
School of Information



Christopher Brooks  
Research Assistant  
Professor  
School of Information

Verify this certificate at:

<https://coursera.org/verify/specialization/8KNQGG8QKWY>

# M UNIVERSITY OF MICHIGAN

Dec 12, 2021

## Nastaran Mehboudi

has successfully completed

### Python Basics

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



Paul Resnick  
Stephen Oney  
Jaclyn Cohen

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COURSE  
CERTIFICATE

Jan 2, 2022

Nastaran Mehboudi

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

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participation in the course.





COURSE  
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Jan 30, 2022

Nastaran Mehboudi

has successfully completed

Python Classes and Inheritance

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



*Stephen Oney Paul Resnick*

Steve Oney  
Assistant Professor  
School of Information

Paul Resnick  
Michael D. Cohen Collegiate Professor  
School of Information

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participation in the course.



Mar 8, 2022

Nastaran Mehboudi

has successfully completed

Python Functions, Files, and Dictionaries

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

Handwritten signatures of Paul Resnick, Stephen Oney, and Jaclyn Cohen in black ink.

Paul Resnick  
Stephen Oney  
Jaclyn Cohen

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Dec 10, 2022

Nastaran Mehboudi

has successfully completed

Python Project: pillow, tesseract, and opencv

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



A handwritten signature in black ink, appearing to read 'Christopher Brooks'.

Christopher Brooks  
Research Assistant Professor  
School of Information

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We are honored to present this

# Certificate of Completion

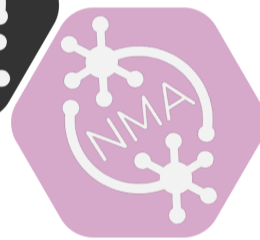
to

## nastaran mehboudi

On the 29th of July 2022

for completion of the interactive track and the course project of  
NMA Computational Neuroscience.

tutorials



project

*Kathryn Bonnen*  
 Kathryn Bonnen, PhD  
 CEO, Neuromatch Academy

*Megan Peters*  
 Megan Peters, PhD  
 Chair, Neuromatch Inc.





JOHNS HOPKINS  
UNIVERSITY

Jan 31, 2023

Nastaran Mehboudi

has successfully completed

Principles of fMRI 1

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

Martin Lindquist, PhD, MSc  
Department of Biostatistics  
Bloomberg School of Public Health  
Johns Hopkins University

Tor Wager, PhD  
Diana L. Taylor Distinguished Professor  
Department of Psychological and Brain Sciences  
Dartmouth College

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Oct 7, 2023

Nastaran Mehboudi

has successfully completed

Calculus for Machine Learning and Data Science

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

A handwritten signature in black ink that reads 'Luis G. Serrano'.

Luis Serrano, Instructor, Serrano Academy. Anshuman Singh, Curriculum Product Manager, DeepLearning.AI. Elena Sanina, Curriculum Engineer, DeepLearning.AI. Magdalena Bouza, Curriculum Developer, DeepLearning.AI. Obed Nsiah, Curriculum Developer. Lucas Coutinho, Curriculum Developer, DeepLearning.AI

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