



# DeepLearning.AI

Jan 9, 2023

## Sajjad Pakdamansavoji

has successfully completed

### Neural Networks and Deep Learning

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

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

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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

## COURSE CERTIFICATE



Verify at:  
<https://coursera.org/verify/4XRQ5PR54EDY>

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



# DeepLearning.AI

Jan 9, 2023

## Sajjad Pakdamansavoji

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### Neural Networks and Deep Learning

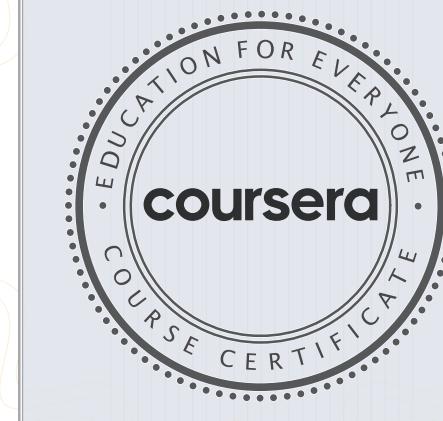
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4 Courses

Natural Language Processing with Classification and Vector Spaces

Natural Language Processing with Probabilistic Models

Natural Language Processing with Sequence Models

Natural Language Processing with Attention Models

Dec 26, 2022

## Sajjad Pakdamansavoji

has successfully completed the online, non-credit Specialization

# Natural Language Processing

Congratulations! You have completed all four courses of Natural Language Processing - a DeepLearning.AI Specialization. As part of this Specialization, you have learned both the classical machine learning skills and the state-of-the-art deep learning techniques needed to build NLP systems. You are now equipped to design applications that perform question-answering and sentiment analysis, create tools to translate languages, summarize text, and build chatbots! These, and other NLP applications, will be at the forefront of the coming transformation to an AI-powered future.

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.



*Younes Bensouda Mourri Łukasz Kaiser*

Younes Bensouda  
Mourri  
Instructor of AI at  
Stanford University

Łukasz Kaiser  
Staff Research Scientist  
at Google and Chargé de Recherche at CNRS

Verify this certificate at:  
<https://coursera.org/verify/specialization/SAXMRSPDN2W4>



# DeepLearning.AI

Dec 26, 2022

## Sajjad Pakdamansavoji

has successfully completed

### Natural Language Processing with Attention Models

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

*Younes Bensouda Mourri Lukasz Kaiser*

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Younes Bensouda Mourri, Instructor of AI at Stanford University  
Lukasz Kaiser, Staff Research Scientist at Google Brain and Chargé de Recherche at CNRS

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Dec 8, 2022

## Sajjad Pakdamansavoji

has successfully completed

### Natural Language Processing with Sequence Models

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

*Younes Bensouda Mourri Lukasz Kaiser*

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Younes Bensouda Mourri, Instructor of AI at Stanford University  
Lukasz Kaiser, Staff Research Scientist at Google Brain and Chargé de Recherche at CNRS

### COURSE CERTIFICATE



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Dec 5, 2022

## Sajjad Pakdamansavoji

has successfully completed

### Natural Language Processing with Probabilistic Models

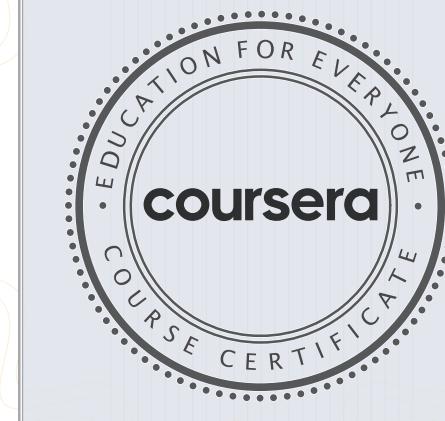
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*Younes Bensouda Mourri Lukasz Kaiser*

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Younes Bensouda Mourri, Instructor of AI at Stanford University  
Lukasz Kaiser, Staff Research Scientist at Google Brain and Chargé de Recherche at CNRS

### COURSE CERTIFICATE



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



Nov 24, 2022

## Sajjad Pakdamansavoji

has successfully completed

### Natural Language Processing with Classification and Vector Spaces

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

*Younes Bensouda Mourri Lukasz Kaiser*

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Younes Bensouda Mourri, Instructor of AI at Stanford University  
Lukasz Kaiser, Staff Research Scientist at Google Brain and Chargé de Recherche at CNRS

## COURSE CERTIFICATE



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Nov 12, 2022

## Sajjad Pakdamansavoji

has successfully completed

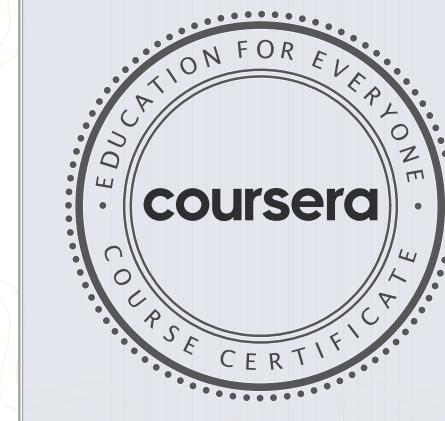
### Apply Generative Adversarial Networks (GANs)

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

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Sharon Zhou, Course Instructor, DeepLearning.AI  
Eda Zhou, Curriculum Developer, DeepLearning.AI  
Eric Zelikman, Curriculum Developer, DeepLearning.AI

## COURSE CERTIFICATE



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



3 Courses

**Build Basic Generative  
Adversarial Networks  
(GANs)**

**Build Better Generative  
Adversarial Networks  
(GANs)**

**Apply Generative  
Adversarial Networks  
(GANs)**



Nov 12, 2022

## Sajjad Pakdamansavoji

has successfully completed the online, non-credit Specialization

# Generative Adversarial Networks (GANs)

Congratulations! You have completed all 3 courses of Generative Adversarial Networks - a DeepLearning.AI Specialization. As part of this Specialization, you have learned the classical machine learning skills and the state-of-the-art deep learning techniques needed to build GANs models. You are now equipped to design applications that perform image generation and image-to-image translation using GANs! These, and other generative applications, are going to be at the forefront of the coming transformation to an AI-powered future.

  
Sharon Zhou  
Course Instructor  
DeepLearning.AI

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<https://coursera.org/verify/specialization/8HX52T64BG8X>



# UNIVERSITY OF ALBERTA

Nov 6, 2022

## Sajjad Pakdamansavoji

has successfully completed

### Prediction and Control with Function Approximation

an online non-credit course authorized by University of Alberta, Alberta Machine  
Intelligence Institute and offered through Coursera

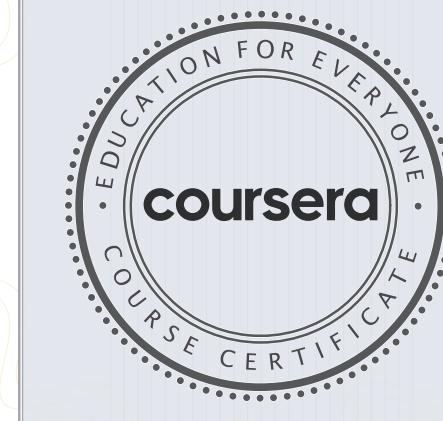
Handwritten signature of Martha White.

Martha White  
Assistant Professor  
Computing Science  
Faculty of Science

Handwritten signature of Adam White.

Adam White  
Assistant Professor  
Computing Science  
Faculty of Science

COURSE  
CERTIFICATE



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<https://coursera.org/verify/TT9QCT5TZCWJ>

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



Jan 21, 2022

## Sajjad Pakdamansavoji

has successfully completed

### Build Better Generative Adversarial Networks (GANs)

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

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Sharon Zhou, Course Instructor, DeepLearning.AI  
Eda Zhou, Curriculum Developer, DeepLearning.AI  
Eric Zelikman, Curriculum Developer, DeepLearning.AI

### COURSE CERTIFICATE



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



# UNIVERSITY OF ALBERTA

Jan 4, 2022

## Sajjad Pakdamansavoji

has successfully completed

### Sample-based Learning Methods

an online non-credit course authorized by University of Alberta, Alberta Machine Intelligence Institute and offered through Coursera

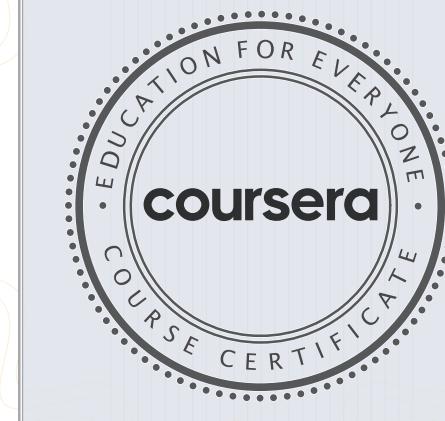
A handwritten signature in black ink that reads "Martha White".

Martha White  
Assistant Professor  
Computing Science  
Faculty of Science

A handwritten signature in black ink that reads "Adam White".

Adam White  
Assistant Professor  
Computing Science  
Faculty of Science

COURSE  
CERTIFICATE



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



# UNIVERSITY OF ALBERTA

Nov 1, 2021

## Sajjad Pakdamansavoji

has successfully completed

### Fundamentals of Reinforcement Learning

an online non-credit course authorized by University of Alberta, Alberta Machine Intelligence Institute and offered through Coursera

A handwritten signature in black ink that reads "Martha White".

Martha White  
Assistant Professor  
Computing Science  
Faculty of Science

A handwritten signature in black ink that reads "Adam White".

Adam White  
Assistant Professor  
Computing Science  
Faculty of Science

## COURSE CERTIFICATE



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



Nov 19, 2021

## Sajjad Pakdamansavoji

has successfully completed

### Build Basic Generative Adversarial Networks (GANs)

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

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Sharon Zhou, Course Instructor, DeepLearning.AI  
Eda Zhou, Curriculum Developer, DeepLearning.AI  
Eric Zelikman, Curriculum Developer, DeepLearning.AI

## COURSE CERTIFICATE



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