



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**



Sep 28, 2020

**Julius Herrera Ongteco**

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 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 and summarize text, and build chatbots! These, and other NLP applications, are going to 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:  
[coursera.org/verify/specialization/XU5TRSQLLUD9](https://coursera.org/verify/specialization/XU5TRSQLLUD9)