

VIPP GLOBAL VIRTUAL WINTER SCHOOL *at Michigan State University*

# AI IN THE ERA OF LANGUAGE MODELS

## COURSE DESCRIPTION

Artificial intelligence is rapidly changing our world. This course will delve into this dynamic field, with a particular focus on the era of language models such as ChatGPT. Gain a broad understanding of AI and machine learning and explore natural language processing (NLP) to understand the evolution of language models.

One of the central themes of this course is the transformative impact of transformer-based language models. We will examine their foundational components and their versatile applications in addressing a diverse array of challenges across language, vision, and more!

Furthermore, we will explore the intricacies, obstacles, and unsolved problems within this ever-evolving field, offering you a glimpse into the exciting future of AI, as well as its impact on our lives and work today. The course will feature an interactive hands-on project, allowing you to choose an NLP problem of your interest. You will have the opportunity to design a customized model to tackle your chosen problem, followed by conducting experiments to gain practical experience and insights.

## DETAILS

### Fees and Payment

- \$1000 per person
- Pay online by December 31, 2023
- No refund once program starts

### Delivery Platform

Zoom and D2L

### Program Dates

10 days in a 2-week period:

Monday, January 22 to  
Friday, February 2, 2024

## HOW TO APPLY

Applications open November 1, 2023 and close December 16, 2023.

Contact [vippmsu@msu.edu](mailto:vippmsu@msu.edu) for further information.

To apply, visit [vipp.msu.edu/winter](http://vipp.msu.edu/winter)



## CLASS TIME

TIME ZONE	East Lansing, MI USA (EST)	Indonesia (Jakarta)	China Philippines Malaysia	Japan S. Korea
Local Time	7:30am - 9:00am	7:30pm - 9:00pm	8:30pm - 10:00pm	9:30pm - 11:00pm

### Note:

- A total of 15 synchronous contact hours and approximately 15 hours of offline project time
- This course is equivalent to 1 credit at MSU but no official MSU credit will be awarded.

## ADMISSION REQUIREMENTS

- Open to undergraduate or graduate students at any accredited college, as well as high school seniors
- Intermediate English skills
- Any major
- Must have a modern laptop or desktop computer and access to a reliable internet connection
- Must have a webcam
- Must commit to participate in all scheduled online meetings and complete all assignments on time

## INSTRUCTOR

### Parisa Kordjamshidi, PhD

*Assistant Professor, Computer Science and Engineering  
Michigan State University*

Dr. Parisa Kordjamshidi is an assistant professor in the Department of Computer Science and Engineering at Michigan State University, and director of the research lab on Heterogeneous Learning and Reasoning (HLR). Her research interests include artificial intelligence, machine learning, natural language processing, and declarative learning based programming (DeLBP). Dr. Kordjamshidi holds an affiliated position with the Florida Institute for Human and Machine Cognition as a research scientist. Prior to joining MSU, she was an assistant professor at Tulane University and a Postdoctoral researcher at the University of Illinois at Urbana-Champaign. Dr. Kordjamshidi obtained her PhD from KU Leuven, Belgium, in July 2013. She was a recipient of a National Science Foundation Career Award in 2019. Dr. Kordjamshidi is a member of the of Editorial Board of the *Journal of Artificial Intelligence Research (JAIR)* and a member of the Editorial Board of *Machine Learning and Artificial Intelligence*, part of the journal *Frontiers in Artificial Intelligence and Frontiers in Big Data*.

### Certification

Upon successful completion of the program, a joint certificate will be awarded by the Visiting International Professional Program and Michigan State University Department of Computer Science and Engineering.

## APPLICATION

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 **APPLY TODAY!**

