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Course Completed by

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on: November 03, 2023

Overview

This project-oriented class focuses on developing systems and algorithms for robust machine understanding of human language. The course draws on theoretical concepts from linguistics, natural language processing, and machine learning. Learners explore building neural information retrieval systems using large language models and get a deeper understanding of classical and neural information retrieval methods. They explore semantic and syntactic relations between words with contextual word representation models such as transformers, BERT, ELECTRA, and GPT. Learners build their original baseline models that are entered into informal class-wide competitions and pursue an original project in natural language understanding with a focus on following best practices in the field.

Competencies / Skills

Contextual Word Representations

Information Retrieval

In-Context Learning

Evaluation Methods and Metrics

Multi-domain Sentiment

Few-shot OpenQA

Compositional generalization

Large Language Models (GPT)

Credential / Credit Earned

Certificate of Achievement in Natural Language Understanding verified by the Stanford Center for Professional Development.

Grade: Satisfactory **CEU(s): 10.0**

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Associated Program

[Artificial Intelligence Professional Program](#)