

CISTalks

Time: **2024-03-13T15:00**

Location: **BBBF-311, Yeditepe University**

Open to the public. All are invited.

From Statistical Models to Large Language Models: A Modern Look at Machine Learning

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Abstract

“There is in all things a pattern that is part of our universe. It has symmetry, elegance, and grace - those qualities you find always in that which the true artist captures. You can find it in the turning of the seasons, in the way sand trails along a ridge, in the branch clusters of the creosote bush or the pattern of its leaves.”- Dune (1965).

From the oldest statistical models to the newest approaches such as Large Language Models, we are searching for patterns in data. In this talk, we will discuss machine learning algorithms in general and make an introduction to large language modeling. We will make a glimpse to a toy example of the word2vec algorithm with pytorch code . We will also present transformer-based NLP applications, such as sentiment analysis, summarization and so on.

Biography

Uzay Çetin received his master's degree in artificial intelligence from Pierre and Marie Curie University (PARIS VI) and his doctoral degree in complex systems from Bogazici University Computer Engineering Department. He is a faculty member in Galatasaray University Computer Engineering department, and he is co-founder of Summarify (<https://summarify.io/>). He organizes free machine learning (ML) courses to young people in Sariyer Municipality (<http://bit.ly/yapayzeka04>) and he works as a ML consultant with different firms. He also organizes multi-disciplinary workshops on complex systems and data science (<http://bit.ly/kahve2019>).