XCS224W - MACHINE LEARNING WITH GRAPHS

Issuing body:
Stanford Online

Sponsoring School:
Stanford | ENGINEERING

Verified by:
Stanford | Center for Professional Development

Course Completed by

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Outcomes

Complex data can be represented as a graph of relationships and interactions between objects. This course explores the computational, algorithmic, and modeling challenges specific to the analysis of massive graphs. By studying underlying graph structures, learners get a deeper understanding of machine learning and data mining techniques that can improve prediction and reveal insights on a variety of networks. Learners complete colab assignments focused on learning node embeddings, constructing, testing and training graph neural networks.

Competencies / Skills

- Graph neural networks
- Representation learning
- Knowledge graphs
- Deep generative models for graphs
- Node embeddings and classification
- Graph structure of the web
- Influence maximization

Credential / Credit Earned

Certificate of Achievement in Machine Learning with Graphs verified by the Stanford Center for Professional Development.

Grade: Satisfactory **CEU(s): 10.0**
Digital Credential Information

Associated Program
Artificial Intelligence Professional Program