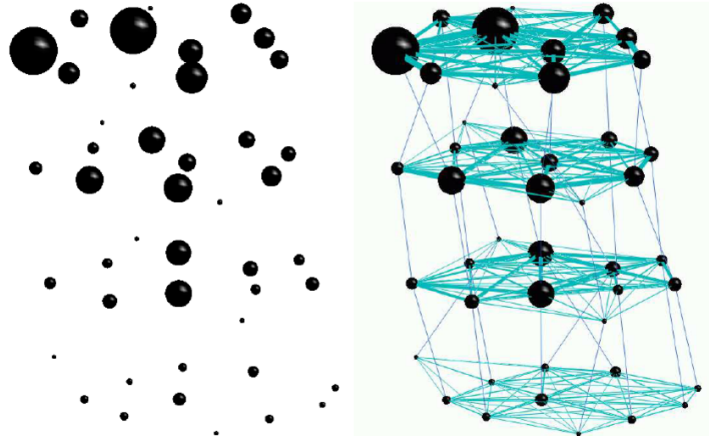




Building Deep Learning Models for Dynamic Graphs

If political relations between two countries becomes more tense, will it affect the international trades between them? If yes, which industries will bear the brunt? Modeling the relevant entity interactions that can be temporarily affected by other temporal facts is the key to answer this question. The object studied in this project can be abstracted as a dynamic and directional temporal graph. Only a few deep learning algorithms have been developed to model these graphs and the difficulty is the underlying continuous nature of the dynamic graph.



Therefore, in this research project we will develop new machine learning algorithms to model and characterize these types of dynamic graphs for interesting downstream prediction and forecasting tasks. We will have weekly meetings to address questions, discuss progress, and think about future ideas.

Requirements: Strong motivation, proficiency in Python & PyTorch, and prior knowledge in Deep Learning & Nature Language Processing.

Interested? Please contact us for more details!

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