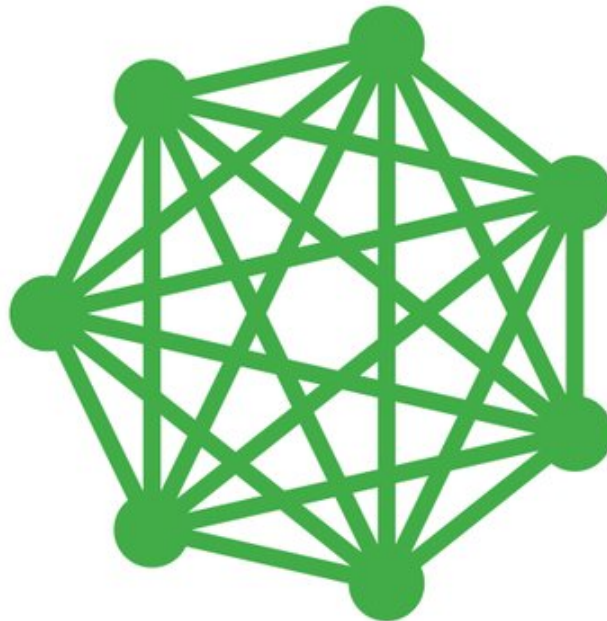




Deep Learning for Hyper Graph

Complex networks are ubiquitous in modern life and underpin integral parts of many biological, social and technological systems. Such networks stem from the richness of the interactions among their units and are mainly represented as graphs. To learn from such graph-structured data, a surge of interest in combining traditional graph signal processing with modern deep learning frameworks has appeared recently. Graph neural network (GNN) formalism is rapidly becoming a dominant and fast-growing paradigm. GNNs have enjoyed a tremendous success on both node and graph classification tasks.



Therefore, in this research project we will develop new machine learning algorithms to model and characterize these hyper 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.

Interested? Please contact us for more details!

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