

Graph Neural Networks and Explainability

Pete Zétény Dominik

Abstract

In recent years, Graph Neural Networks (GNNs) have emerged as powerful tools for learning from graph-structured data. This thesis gives a brief overview of a few significant models, while also taking a close look at the explainability of GNNs. Additionally, we conduct an experiment to investigate whether popular datasets are complex enough to be used as benchmark datasets for Temporal Graph Neural Networks, specifically we examine whether a Temporal Graph Attention Network relies only on recent information, or if it learns deep patterns from the popular datasets.