

Abstract

The Knowledge Graph (KG) plays an important role in artificial intelligence (AI) systems. With the development of the knowledge graph in relevant techniques, text to knowledge graph has a research field in industry and academic studies. This technique integrates parts of KG's that include entities and relationships in low-dimensional continuous vector spaces. in this thesis, we proposed a model that is based on Convolutional Neural Network (CNN) which constructs knowledge graphs from text. we used wikipedia articles and, CONLL003 datasets that provide a systematic analysis of existing processes. First, We construct a KG that describe the overall structure used to represent entities and relationships in text documents from the point of view of textual models. Second, evaluate the KG construction techniques in the text, and define the advantages and disadvantages of such techniques as well. Thirdly, we will discuss the training procedures for the knowledge base of text to KG techniques. Lastly, we hope that this analysis will encourage and provide insight for researchers to construct KG from textual information.