

ABSTRACT

Knowledge Graph (KG) is a representation of an information structure that contains entities and relationships between entities in it to help understand information. The entities in the KG itself can cover various objects that exist in the real world, making it possible for the KG to be implemented in many sectors, one of which is analyzing employee data in a company or institution. In this article, we will analyze employee data using a dummy dataset sourced from the Kaggle site. The analysis process itself will be carried out by visualizing data, namely visualization of knowledge graphs. Apart from that, a prompting process is also implemented to convert natural language input into queries for the visualization process. The final result is that the application of the prompting process can help generate queries based on natural language input by the user. These queries can then be executed on the respective graph frameworks or databases to produce knowledge graph visualizations. The resulting visualization shows that this visualization can help make decisions and gain insight. This is obtained through a validation process.

Keyword: *Knowledge Graph, entity, relation, knowledge graph visualization, prompting, framework, graph database.*