

Project Title: Personal data privacy protection using knowledge graph

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Abstract

In this information era, data is considered as the new oil of the 21st century. Data is misused by organizations or countries for economic or political gain. The potential damage due to personal data privacy breach can be controlled at a political, social, and technological level. This research aims to provide a technical solution to evaluate and warns the potential data breach via software plugin which uses semantic web and knowledge graph. A knowledge graph is built that connects the user and the organization whose website is visited by the user. The software will analyse the organization 's data privacy policy and user relationship with the organization and generates data sensitivity metric pertaining to the data sensitivity level to the particular user. Based on the sensitivity metric, the user will be warned about the potential data breach.