Abstract

The web nowadays is a dynamic container of ever-increasing data. People, businesses, and devices have all become data factories that are pumping out incredible volumes of information to the web each day. There are 2.5 quintillion bytes of data created each day at our current pace on the web[1]. Also, 90% of the data produced is unstructured. Hence, there is a pressing need for the transformation of the Web 2.0 and thereby bringing in the concept of Semantic Web with a rapid pace. But, the implementation of Web 3.0 is being decelerated by various issues. However, recent advancements in the field of Machine Learning have proposed approaches to bridge the gap between semantics and the current web. In this paper, various challenges that hinder the adoption of Semantic Web and the new opportunities especially in the field of machine learning that can provide a thrust to this process have been explored.


Index Terms

Computer Science
Artificial Intelligence

Keywords

Semantic Web, Ontology Mining, Machine Learning