

Name of the Seminar or Project

Name

Roll No and details :

Govt. Model Engineering College

Thrikkakkara

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Outline

1 Introduction

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- 1 Introduction
- 2 Literature Survey
 - Research Scope

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- 3 Semantic Web Technologies: State of The Art
 - The Semantic Web Information Model : RDF
 - RDF Serializations
 - Expressing Semantics in RDF
 - Ontology
 - OWL
 - Querying The Semantic Web

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 - Architecture
 - Software Tools for Semantic Web Programming
 - APIs for Semantic Web Programming
 - SPARQL Engine
 - Prototype Design
 - Domain Ontology: FOAF

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- The World Wide Web is today's largest warehouse of knowledge.
- Documents over the Web is largely unorganized.
- Web is accessible only for humans.
- Computers understand only the Web pages' structure and layout and have no access to their intended meaning.
- The Semantic Web aims to enrich the existing Web with a layer of machine interpretable meta data so that a computer program can draw conclusions.

Semantic Web Mining

Web Mining applies data mining techniques to Web. **Semantic Web Mining** aims at combining the two emergent research areas, Semantic Web and Web Mining.



Tim Berners-Lee, 1999

I hav.....bureaucracy and our daily lives will be handled by machines talking to machines

- The increasing interest in Web infotium.
- The Semantic Web is the manifestation of graph theory and description logic.

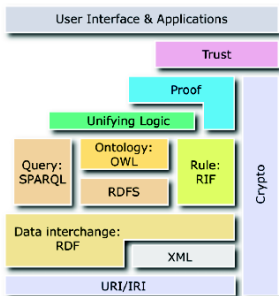


Figure: Semantic Web Layer Cake

Web mining offers tarch areas, ontology approach is best suitable for Web content mining .

- An ontology is an explicit specification of a conceptualization .
- In computer science, the word ontology, borrowed from philosophy,

- [1] Cavtat-Dubrovnik, Croatia, " Web Mining: From Web to Semantic Web", *First European Web Mining Forum, EWMF2003, Invited and Selected Revised Papers Springer, 2003*
- [2] Liyang Yu, "A Developer's Guide to the Semantic Web" *Springer*