Abstract: Our research focuses on the use of machine learning for retrieving, processing, mining and extracting information from text and social media. We concentrate on semantic aspects, including semantic interpretation of text, ontology matching and learning, and the use of semantics for information retrieval, health informatics, e-learning, domain oriented text mining and social network mining. Image mining is another important aspect of our work. We are currently working on the use of generic as well as domain specific ontologies for applications including ontology based search and topic detection. In addition we are working on new approaches to partitioning and matching ontologies. We also work on machine learning and language processing techniques for ontology learning. This presentation gives a brief overview about the department, the aspects of machine learning we have used for semantic based computing, natural language processing, social network mining and other applications. We will also discuss the work in medical text mining, recommendation systems and image analysis. We give a glimpse of the work carried out by other faculty at our department and finally outline the possible avenues and types of possible collaborative activities.

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