SIGML

SPECIAL INTEREST GROUP IN MACHINE LEARNING

Title: Multi-label Learning
Speaker: Purushottam Kar
Day: October 1, 2015, Thursday
Time: 5:15 PM
Venue: KD101 (CSE main)

Abstract:
Given an image, can I learn how to tag it with all the objects present in that image? Given a document, can I tag it with all the topics the document talks about? Answering these questions requires us to solve the so called multi-label learning problem. For a long time, the task of multi-label learning has attracted the interest of researchers and practitioners alike due to its applicability in diverse domains such as image and document tagging and annotation.

Consequently, several algorithms were proposed over the years, using innovative and useful insights into the problem. In recent years, the problem has acquired new dimensions (quite literally) due to its new found applicability in problems such as ranking and recommendation (e.g. assigning a NetFlix user movies (s)he is likely to watch). This has caused a veritable explosion in the scale at which the problems need to be tackled, requiring novel and scalable algorithms to be designed.

This talk will look at this problem more deeply and explore some solution strategies.