



(Global Initiative on Academic Network)

Recommender System

(December 5, 2016-December 18, 2016)

Overview

Recommender system (RS) is an integral part of information and e-commerce ecosystem over last decades. They have been successfully used to help people cope with information overload problem. The primary task of a recommender system is to provide personalized suggestions for products, items or services to individual user filtering through large product or item or service space.

Recommender Systems collect information on the preferences of its users for a set of items. The information can be acquired explicitly (typically by collecting users' ratings) or implicitly (typically by monitoring users' behavior, such as songs heard, applications downloaded, web sites visited and books read). RS may use demographic features of users (like age, nationality, gender). Social information, like followers, followed, twits, and posts, is commonly used in Web 2.0. The RS makes use of various sources of information for providing users with predictions and recommendations of items.

Development of recommender systems is a multi-disciplinary effort which involves experts from various fields such as Artificial intelligence, Human Computer Interaction, Information Technology, Data Mining, Statistics, and Consumer Behavior. Effective deployment of RS must begin with careful analysis of prospective users and their goals. Based on this analysis, system designers, practitioners have a host of options for the choice of algorithms as many recommender system algorithms have been developed in various applications over the decades.

Internationally reputed faculty member with mastery in teaching, research, consultancy and industrial experience in area of Artificial Intelligence, Recommender System will conduct this course. Recommender systems deployed in popular e-commerce enterprise such as Amazon will be analyzed in this course.

Course participants will learn these topics through lectures and hands-on experiments. Also case studies and assignments will be shared to stimulate research motivation of participants.

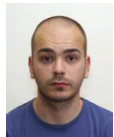
Modules	<p>A: Basic Concepts and Techniques in RS : December 5 – December 10,2016</p> <p>B: Advanced Topics and Evaluation in RS : December 12 – December 18, 2016</p> <p>Number of participants for the course will be limited to thirty.</p>
You Should Attend If...	<ul style="list-style-type: none"> ▪ You are graduate or undergraduate student in Electronics, Computer Science, Electrical, Mathematics, and Statistics. ▪ You are a data scientist and working with e-commerce company or want to pursue your career as a data scientist. ▪ You are a Ph.D. student or faculty from academic institution interested in learning how to do research on Recommender System or how to apply Machine Learning Techniques in Recommender System.
Fees	<p>The participation fees for taking the course is as follows:</p> <p>Participants from abroad : US \$500</p> <p>Industry/ Research Organizations : INR 15000</p> <p>Academic Institutions (Faculty): INR 5000</p> <p>Students: INR 2000</p> <p>The above fee include all instructional materials, computer use for tutorials and assignments, laboratory equipment usage charges, 24 hr free internet facility. The participants will be provided with accommodation on payment basis.</p>

**December 5, 2016-
December 18, 2016**

At

**National Institute of
Technology Rourkela**

The Faculty



Dr. Antonio Hernando is a faculty in Engineering System and Automation at Technical University of Madrid (UPM), Madrid, Spain. He earned his PhD in Artificial Intelligence from University of Madrid, Madrid, Spain. Prior to his Ph.D. , he completed Masters degree in Mathematics and Computer Science from Universidad Complutense de Madrid and UPM, respectively. Dr. Hernando is a well-known researcher in recommender system. He was the principal investigators of many machine learning projects at UPM. Currently, he is handling projects obtained from National Government of Spain such as *customized recommender system for healthy life styles*, *ONTIC: Online Network Traffic Characterization*, etc. He is the leader of the research group Intelligent System for Social and Virtual Environments at UPM. His research interest includes Data Science, Machine learning, Complex Network.



Dr. Bidyut Kumar Patra is a faculty in the Department of Computer Science and Engineering at National Institute of Technology Rourkela. He earned his Ph.D. degree in Computer Science and Engineering from IIT Guwahati. He was awarded Marie-Curie Fellowship for conducting Postdoctoral Research in Finland. His research area includes Machine Learning, Data Mining, and Operating Systems.

Course Co-ordinator

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