



A WORKSHOP ON STATISTICS AND R BY DR. GOKUL BHANDARI\*

@ DEERWALK INSTITUTE OF TECHNOLOGY, SIFAL, KATHMANDU

## OBJECTIVE

Enable the participants so that they can initiate and complete real-world RS projects

## TARGET GROUP

Higher level undergraduate computer science students interested in developing their own recommender systems

## TRAINING METHOD

- Lecture
- Group Work

## COURSE DURATION/DATES

**Enrollment deadline:**15th July, 2016

**Duration:**15hours (3 hours per day for 5 days within 23rd to 30th of July)

## COURSE OUTLINE

**What is a Recommender System?** Broadly speaking, a Recommender System (RS) is a type of application that attempts to “understand” a user based on historical data it has collected from prior interactions and provides appropriate recommendation to the user. For example, Amazon recommends books to a reader based on her purchase history. Netflix is another company that makes extensive use of its recommender system to identify the movies that a person may enjoy based on his past viewing preferences. The main focus will be as follows:

- Overview of different recommender systems (Collaborative Filtering Systems; Content-based Systems; Knowledge-based Systems; Hybrid Systems)
- Overview of analytics techniques used in RS (Similarity measures - Euclidean distance; Cosine distance; Pearson correlation; Dimensionality reduction - Principle component analysis; Data mining techniques -K-means clustering; SVM);
- Evaluating the performance of RS (Guidelines for Developing an RS -Case study/hands-on exercise);
- Develop your own RS (Individual project)

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\* **Profile of \*Dr. Gokul Bhandari: Please visit,** <http://www1.uwindsor.ca/odette/gokul-bhandari>



### FEE STRUCTURE

- Institutional Enrollment Rs.9000/ participant
- Individual Enrollment Rs.6000/ participant

### MODE OF PAYMENT

- Full payment on the day of Enrollment.

### HOW TO APPLY

Registration by email or phone call. Please contact Mr. Pravin Thapalia via email or phone as follows:

- Email: [contact@deerwalk.edu.np](mailto:contact@deerwalk.edu.np)
- Contact Number: 01-4467153/9860422021