

Machine Learning Algorithms and Data Analytics
(3-13 June 2014)
at Thapar University, Patiala
Sponsored by ACM India Council
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Objective of this workshop/Summer School is to promote the discovery and dissemination of high quality teaching and research in Machine Learning algorithms and Data Analytics. The need of sophisticated algorithms is increasing in all areas of applications due to increasing size and complexity of the problems. Workshop is intended for professionals, teachers, research scholars and software engineers.

How you will spend the summer of 2014?

- **Are you fascinated by research in machine learning and Data Analytics algorithms?**
- **Do you like to solve challenging and puzzling research problems in algorithms?**

If your answer is yes, then join us at Thapar University Campus, Patiala with other motivated, talented and young teachers and researchers from across the world.

Tentative Day Wise Contents:

(One Week will be focussed on Machine Learning and the Second Week will Focus on Data Analytics and Business Intelligence)

1. Machine Learning Basics, Different Types of Learning and Learning Experiments
2. Probabilistic Graph Models, Inference and Decision Making, Statistical Machine Learning
3. Natural Language Processing, Natural language Toolkit, Speech Recognition, Speech Synthesis
4. Information Retrieval, Sentiment Analysis, Recommender Systems
5. Social Media Analysis, Graph Visualization, Complex System Analysis
6. Big Data Technology Landscape, Introduction to Business Intelligence, Big Data Analytics
7. Hadoop Framework, Basic Data Analytic Methods using R, Web data mining
8. Data Analysis with Graphics and Visualization, Web Data Analytics
9. Web Intelligence, Knowledge management
10. Tools and techniques, Applications, Research Problems and Issues