

Sheet1

**ACM India Summer School on Algorithmic and Theoretical Aspects of Machine Learning  
Schedule of talks**

**Week 1: 10 – 14 June 2019**

Date	Speaker(s)	Topic(s)	Slot 1	Tea/C offee	Slot 2	Lunch	Slot 3	Tea/C offee	Slot 4
10-06-19	Amit Chattopadhyay + G Srinivasaraghavan	Linear Algebra + Probability theory	Lecture (AC)		Lecture (AC)		Lecture (GSR)		Lecture (GSR)
11-06-19	Ganesh Ramakrishnan	Introduction to machine learning (supervised and unsupervised learning)	Lecture (GR)		Lecture (GR)		Tutorial (GR)		Lecture (GR)
12-06-19	Ganesh Ramakrishnan	Artificial neural networks	Lecture (GR)		Lecture (GR)		Tutorial (GR)		Lecture (GR)
13-06-19	Amit Chattopadhyay + G Srinivasaraghavan + Pradeesha Ashok	Linear Algebra + Probability theory + Algorithm Design Strategies (DP, randomized, graph algorithms)	Lecture (AC)		Lecture (GSR)		Lecture (PA)		Tutorial (AC)
14-06-19	Praneeth Netrapalli + Pradeesha Ashok + Sriram Rajamani	ADS + Outreach activities of MSR + Optimization	Lecture (PA)		Lecture (SR)		Lecture (PN)		Lecture (PN)

**Week 2: 17 – 21 June 2019**

Date	Speaker(s)	Topic(s)	Slot 1	Tea/C offee	Slot 2	Lunch	Slot 3	Tea/C offee	Slot 4
17-06-19	Pradeesha Ashok	Algorithm Design Strategies	Lecture (PA)		Lecture (PA)		Tutorial (PA)		Tutorial (PA)
18-06-19	G Srinivasaraghavan	Algorithms for large data	Lecture (GSR)		Lecture (GSR)		Tutorial (GSR)		Lecture (GSR)
19-06-19	Prashanth L A	Reinforcement Learning	Lecture (PLA)		Lecture (PLA)		Tutorial (PLA)		Lecture (PLA)
20-06-19	Prashanth L A	Reinforcement Learning	Lecture (PLA)		Lecture (PLA)		Tutorial (PLA)		Lecture (PLA)
21-06-19	G Srinivasaraghavan	Computational Learning Theory	Lecture (GSR)		Lecture (GSR)		Tutorial (GSR)		Lecture (GSR)

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Week 3: 24 – 28 June 2019									
Date	Speaker(s)	Topic(s)	Slot 1	Tea/Coffee	Slot 2	Lunch	Slot 3	Tea/Coffee	Slot 4
24-06-19	Ajit Rajwade	Compressed sensing/ sparse coding	Lecture (AR)		Lecture (AR)		Tutorial (AR)		Lecture (AR)
25-06-19	Ajit Rajwade	Compressed sensing/ sparse coding	Lecture (AR)		Lecture (AR)		Tutorial (AR)		Lecture (AR)
26-06-19	Srinivas Vivek and Arpita Patra	Privacy preserving ML with FHE and MPC	Lecture (SV)		Lecture (SV)		Lecture (AP)		Lecture (SV)
27-06-19	Meenakshi D'Souza	Finite state automata, decision trees and learning on automata and decision trees	Lecture (MD)		Lecture (MD)		Tutorial (MD)		Lecture (MD)
28-06-19	V Ramsubramanian	Deep Learning Theory	Lecture (VR)		Lecture (VR)		Tutorial (VR)		Lecture (VR)

**Day schedule**

Slot 1	9:15 AM to 10:45 AM
Tea/Coffee Break	10:45 AM to 11:15 AM
Slot 2	11:15 AM to 12:45 PM
Lunch	12:45 PM to 2:00 PM
Slot 3	2:00 PM to 3:30 PM
Tea/Coffee Break	3:30 PM to 3:45 PM
Slot 4	3:45 PM to 5:15 PM