



# AICTE Sponsored 5-day FDP on Advanced Machine Learning Thrust Area: Artificial Intelligence



Hosted Online by

Ramakrishna Mission Vivekananda Educational and Research Institute  
PO Belur Math, Dist Howrah, 711202, West Bengal

## About RKMVERI

Established in 2005, RKMVERI, formerly known as Ramakrishna Mission Vivekananda University, is an institution deemed-to-be university as declared by the Ministry of Human Resource Development, Govt. of India, under Section 3 of University Grants Commission (UGC) Act, 1956. The multi-campus university houses many departments including Computer Science and conducts programs at various levels ranging from undergraduate/diploma to doctoral.

## CS Department

Department of Computer Science, RKMVERI, was formed in 2009. The department has a prosperous research environment with active research groups in the areas of Algorithms and Theory, Artificial Intelligence, Machine Learning, Computer Vision, Data and Web Mining, Software Engineering, Reliability and Big Data Analytics, etc.. The department launched India's first M.Sc. program in Big Data Analytics in 2016. The program leverages the world-leading expertise in research at RKMVERI with our strategic partnership with TCS to offer the students a M.Sc. in the field of Data Analytics. Graduates from the department are recruited by both academia and industry widely over the Country.

## Schedule: 6-10 December 2021

### Day Topics Covered in 15 Sessions

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| 1 | - Invited Talk: Emerging Trends in AI<br>- Data pre-processing, Visualization using Python<br>- Mathematics for ML   |
| 2 | - Machine Learning (ML) Concepts<br>- Ensemble Learning: Dimension Reduction<br>- Clustering, Support Vector Machine   |
| 3 | - Concepts of Deep Learning<br>- Regularization for Deep Learning<br>- Optimization for Training Deep Models<br>- Practical Neural Nets, Case Study on Medical Imaging |
| 4 | - Explainable AI<br>- Convolutional Neural Networks<br>- Application of Knowledge Graphs   |
| 5 | - Recurrent Neural Networks<br>- Deep Generative Models<br>- Reinforcement Learning  |

## FDP on Advanced Machine Learning

Department of Computer Science, Ramakrishna Mission Vivekananda Educational and Research Institute (RKMVERI), an A++ institution as declared by NAAC in the assessment concluded in March 2019, aims at the professionals from the industry, academia, scientific and research communities to give a thorough understanding of Machine Learning and Deep Learning algorithms and their applications in real life and Big Data analytics. RKMVERI is now pleased to announce the AICTE sponsored Faculty Development Program on Machine learning and Big Data, dated between 6-10 December 2021.

## For Whom

This FDP is designed for teachers and researchers working in colleges, universities and professional institutes which teach computer science and allied subjects. It is also suited for scientists and tech-enthusiasts, seeking to learn and adopt Big Data tools, Machine Learning and Deep Learning techniques, and gain familiarity with essential aspects of carrying out research studies. This FDP is best suited for those who attended the first level FDP held in July 2021. Prior knowledge of the concepts of Machine Learning and Deep learning will help better.

## Resource Persons

- ▶ Sw. Sarvottamananda, RKMVERI, PhD IIT Kanpur
- ▶ Prof. Dipti Prasad Mukherjee, ISI, Kolkata
- ▶ Prof. Amlan Chakrabarti, Calcutta University.
- ▶ Dr. Siva Theja Maguliri, Georgia Institute of Technology, Atlanta
- ▶ Dr. Sudipta Das, RKMVERI
- ▶ Dr. Sudeep Mallick, RKMVERI
- ▶ Br. Tamal, RKMVERI, PhD, SUNY Buffalo, USA
- ▶ Br. Mrinmay, RKMVERI, PhD Penn. State Univ., USA

## Contact Information

Coordinator : Br. Tamal Maharaj  
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FDP Webpage : cs.rkmvu.ac.in/aml21

## A Pearl of Wisdom

Each Soul is Potentially divine and the goal is to manifest this divinity

- Swami Vivekananda