



Online FDP on AI: Machine Learning and Big Data

Hosted by Ramakrishna Mission Vivekananda Educational and Research Institute.

PO Belur Math, Dist Howrah, 711202, West Bengal



The Institute

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.

The 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.

Foundational FDP on Machine Learning and Big Data

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 5-9 July 2021. This FDP is targeted at novices in the field of Artificial Intelligence. As a pre-requisite it is expected that the participant has very basic understanding and working knowledge in mathematics.

For Whom

The 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 scientist 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.

Resource Persons

- Sw. Sarvottamananda, RKMVERI, PhD IIT Kanpur
- Dr. Sujoy Biswas, Director AIMP Labs.
- Dr. Sukomal Pal, IT BHU
- Dr. Bhadri Subudhi, IIT Jammu
- Dr. Sudipta Das, RKMVERI
- Dr. Sudeep Mallick, RKMVERI
- Br. Tamal, RKMVERI, PhD, SUNY Buffalo, USA
- Br. Dripta, RKMVERI, Post Doc, Univ. of Oxford
- Br. Mrinmay, RKMVERI, PhD Pennsylvania State University, USA

Schedule - 5 to 9 July 2021

Day	Topics Covered in 15 Sessions	Day	Topics (continued)
1	- AI, ML, DL Landscape and Big Data Analytics - Data pre-processing using R - Data pre-processing using Python - Visualization in Python	4	Introduction to Deep Learning: - Multi layer perceptron, classification, back propagation, activation functions - Convolutional Neural Networks, Computer Vision, Recurrent Neural Networks - Recommender Systems - Case Study in Computer Vision
2	- Machine Learning (ML) Concepts: Demystifying ML - Simple Linear Regression - Multiple Linear Regression - Logistic Regression	5	- Introduction to Deep Learning: GAN - Data Processing Using Big Data Technologies: Map Reduce with Hadoop - Data Processing Using Big Data: PySpark - Case Study: Medical Imaging
3	- Ensemble Learning: Bagging, Boosting, Random Forest - Support Vector Machine - Dimension Reduction, Clustering - Case Study: Application of ML in Bioinformatics		

Contact Information

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FDP Webpage : cs.rkmvu.ac.in/mlbd21

Pearl of Wisdom

Education is the manifestation of Perfection already in Man

- Swami Vivekananda