

BMS INSITTUTE OF TECHNOLOGY & MANAGEMENT

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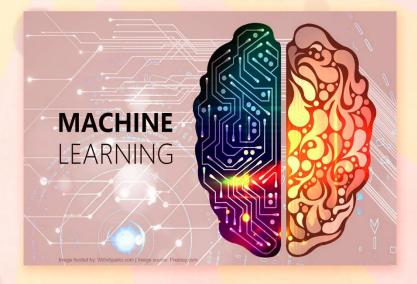
Department of Artificial Intelligence and Machine Learning

Organizes

" MACHINE LEARNING OPERATIONS (MLOPS) "

Date: 12 -16 June 2023

Time: 8.30AM to 4.00PM



Preamble:

MLOps stands for Machine Learning Operations. MLOps is a core function of Machine Learning engineering, focused on streamlining the process of taking machine learning models to production and then maintaining and monitoring them. MlOps is a collaborative function, often comprising data scientists, DevOps engineers, and IT.

Applications MLOps:

- * Manufacturing Industry
- * Logistrics and Warehouse Management
- * Healthcare
- * Gaming
- * Fraud Detection
- * Internet Search

Prerequisites for MLOps:

* C Programming

Open Course Coordinator

Dr. Chandrashekhar B N

Assistant Professor, Dept. of Al & ML

Industry Resource Person
Dr. Srinivas Padmanabhuni

Co-Founder Intellect, testAlng.com and CityMandi [External]

Registration Link:

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For more information

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SI No.	Date	8:30 to 10:30 am	10:30 To 10:50 am	Topics covered 10:50 to 12:50 pm	12:50 To 1:5 0 pm	Topics covered 2:00 to 4:00 pm	4:00 to 4:30 pm
1	12.06.2	Inauguration ML life cycle with crispdm Introduction to MLOps Role of MLOps In ML Lifecycle MLOps tools landscape MLflow as MLops Components of MLops tools Experiments Tracking Model management Registry Versioning Hyper parameter tuning		 Data processing, Wrangling and Feature Engineering Basic Cleaning Steps for Data Dimensionali ty Reduction Feature Selection Feature Engineering By Dr. Srinivas Padmanabhuni 		By Dr. Srinivas Padmanabhuni Co-Founder Intellect, testAlng.com and CityMandi [External]	Quiz & Feedback

		Dr. Srinivas Padmanabhuni Co-Founder Intellect, testAIng.com and CityMandi [External]	t	Co-Founder Intellect, testAlng.com and CityMandi [External]		
2	13.06.2 023	Model development & management with MLFlow • Common Steps • Model Development • Hyperparameter Tuning • Model Evaluation • Supervised ML • Supervised Classification • Supervised Regression By Dr. Srinivas Padmanabhuni Co- Founder Intellect, testAlng.com and CityMandi [External]	d m	d ML	By Dr. Srinivas Padmanabhuni Co- Founder Intellect, testAlng.com and CityMandi [External]	Quiz & Feedback

3	14.06.2			CityMandi [External]	Hands-on session	
	023	Deployment and lifecycle of ML with MLFlow a. Model Deployment with Flask b. Using Experiments and Runs c. Model Registry By Md. Sinan khan Sadanand Venkataraman	Model Model Best	itoring and el Evaluation Model Evaluation Model Monitoring practices End and Model		
4	15.06.2 023	Parallel programming for ML scientific applications FOUNDATION: • Need of parallel programming, • Overview of parallel systems,	loops loops	lelization of s- Parallelizing s with pendent	Parallel programming for ML scientific applications:	Quiz & Feedback

		 Shared memory programming model, Using OpenMP to write multithreaded programs- Compiling and running an OpenMP program, Monitoring an OpenMP program, Hands-on session BY Dr. CHANDRASHEKHAR B N Asst.Prof AI&ML[internal]	Hands-on session BY Dr. CAHANDRASHE KHAR B N Asst.Prof AI&ML	 MPI processes and messaging – Distributed memory computers can execute in parallel, Programmer's view, Message passing interface, Basic MPI operations, Process-to-process communication, How effective are your MPI programs? BY Dr. Archana Bhat Asst.Prof AI&ML[internal] 	
5	16.06.2 023	CUDA	Hands-on session	Valedictory Function	Overall Feedback & Assessment
		Introduction:	ВУ		
		The Benefits of Using GPUs, CUDA: A General-	Hands-on session		
		Purpose Parallel Computing Platform and Programming Model,	ВУ		

A Scalable Programming Model. Programming Model. Programming Model: Kernels, Thread Hierarchy, Memory Hierarchy, Hands-on session BY Dr. CHANDRASHEKHAR B N Asst.Prof AI&ML [internal]	Dr. CHANDRASHEK HAR B N Asst.Prof AI&ML [internal	
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