Joint Winter Faculty Development Program on Machine Learning for Computer Vision June 29 to July 08, 2020

Tentative Schedule

Date		10:15-10:40	10:45-00:45	12: 45– 14:30	14:30-	- 16:00
June 2020	29,	Inaugural	Intro CV (Prof. PK Biswas)	Lunch	Lab 1: Introduction to Python through Colab. [14:30 -16:00]	h Jupyter Notebook and Google
		10:30-12:30		12:30 PM – 14:30 PM	14:30 onward	
June 2020	30,	Intro Image Processing (Prof. PK Biswas)			Lab 2: Image processing problems- Edge detection, image enhancemand related algorithms [14:30 -16:00]	
July 2020	01,	Intro AI and ML (Dr. Partha Pratim Roy)			Lab 3: Understanding of Python libraries and installing Anaconda, TensorFlow, First program on Image classification using ML algorithms [14:30 -16:30]	Queries, Problem Solving, Projects and Research Discussion [16:35 -17:05]
July 2020	02,	Neural Networks and Back Propagation (Dr. Partha Pratim Roy)			Neural Networks: Regularization and Optimization (Dr. Partha Pratim Roy) [14:30-16:30]	Lab 4: Neural network implementation for image classification and feature extraction. [16:35-18:05]
July 2020	03,	Local Patterns and Convolution Neural Networks (Dr. Santosh Kr. Vipparthi)		Lunch Time	Lunch Time Lab 5: Implementation of Local Patterns and Convolution operations using Python [14:30 -16:30]	
July 2020	04,	-	N and Applications osh Kr. Vipparthi)		Lab 6: Implementation of Image Classification using CNN with Transfer Learning [14:30 -16:30]	Queries, Problem Solving, Projects and Research Discussion [16:35 -17:05]
July 2020	05,	Object Detection using CNN (Prof. Aparajita Ojha)			No session [Take home assignment]	
July 2020	06,	Object Detection using CNN (Contd.) (Prof. Aparajita Ojha)			Lab 7: YOLO the and Darknet Framework [14:30 -16:30]	
July 2020	07,	NVIDIA Deep Learning Algorithms and implementation [9:30-12:30]			NVIDIA Deep Learning Algorithms and implementation [14:00-18:00 with small breaks]	
July 2020	08,		timation using CNN amanyam Morala)	Valedictory function		