## TEQIP - III SPONSORED MASTER CLASS

ON

## **Data Science and its Applications**

( 21st-25th November, 2020)

SCHEDULE							
	ber, 2020 (Saturday)	1				1	1
9.00am-9.30am	9:30am-11:00am	11:00am-12:30pm	12:30pm-1:00pm	1:00pm-2:30pm	2:30pm-2:45pm	2:45pm-4:15pm	4.15pm-5.45pm
Inauguration	Session - 1.1	Session - 1.2	Lunch	Session - 1.3	Break	Session - 1.4	Session - 1.5
Inauguration							
Session - 1.1	Dr. Rayid Ghani Keynote lecture: Doing Good with Data: Fairly and Equitably						
Session - 1.2	Dr. Shailesh Kumar Evolution in Al Thinking and Products of the next Decade					<u> </u>	
Session - 1.3	Dr. Sarabjot Singh		How Machines Learn?				
Session - 1.4	Mr. Sahibpreet Singh & team of Data		Hands-on Lab Session - Data Handling and Pre-processing - Pandas (N1), Numpy and Scipy				
	Scientists		(N3)				
Session - 1.5	Mr. Bavalpreet Singl Scientists	n & team of Data	Hands-on Lab Session - Data Vizualisation - Matplotlib, Seaborn (N2)				
	ber, 2020 (Sunday)						
9:00am-10:30am	10:30am-10:45am	10:45am-12:15pm	12:15pm-12:45pm	12:45pm-2:15pm		2:30pm-4:00pm	4.00pm-5.30pm
Session - 2.1	Break	Session - 2.2	Lunch	Session - 2.3	Break	Session - 2.4	Session - 2.5
Session - 2.1	Dr. Sarabjot Singh		Bayesian Approach to Learning				
Session - 2.2	Dr. Ashish Ghosh		Introduction to Neural Networks				
Session - 2.3	Mr. Partho Mukherjee & team of Data Scientists		Hands-on Lab Session - Tensorflow and Keras (N8, N9)				
Session - 2.4	Mr. Atul Tripathi		Unsupervised Learning				
Session - 2.5	Mr. Navjot Tung		Hands-on Lab Session - Regression Models using scikit-learn				
Day 3: 23rd, Nover	mber 2020 (Monday)						
9:00am-10:30am	10:30am-10:45am	10:45am-12:15pm	12:15pm-12:45pm	12:45pm-2:15pm	2:15pm-2:30pm	2:30pm-4:00pm	4.00pm-5.30pm
Session - 3.1	Break	Session - 3.2	Lunch	Session - 3.3	Break	Session - 3.4	Session - 3.5
Session - 3.1	Mr. Atul Tripathi	0.2	Text Analysis and Social Networks				
Session - 3.2	Mr. Chirag Ahuja		Graph Analysis				
Session - 3.3	Dr. Debasis Ganguly		Keynote lecture: A Journey towards Explainable AI and its Societal Implications				
Session - 3.4	Mr. Gurmukh Singh & team of Data Scientists		Hands-on Lab Session - Graph Analysis using NetworkX (N7)				
Session - 3.5	Mr. Madhukar Kumar		Supervised Learning - Session 1				
Day 4: 24th November, 2020 (Tuesday)							
9:00am-10:30am	10:30am-10:45am	10:45am-12:15pm	12:15pm-12:45pm	12:45pm-2:15pm	2:15pm-2:30pm	2:30pm-4:00pm	4.00pm-5.30pm
Session - 4.1	Break	Session - 4.2	Lunch	Session - 4.3	Break	Session - 4.4	Session - 4.5
Session - 4.1	Mr. Madhukar Kumar		Supervised Learning - Session 2				
Session - 4.2	Mr. Gurmukh Singh Scientists	& team of Data	Hands-on Lab Session - Supervised and Unsupervised learning using scikit-learn (N4,N5)				
Session - 4.3	Dr. Sukhjit Singh Sehra / Sarabjot Singh		Model Evaluation and Selection				
Session - 4.4	Mr. Gurmukh Singh & team of Data Scientists		Hands-on Lab Session - Supervised and Unsupervised learning using scikit-learn with Hyper parameter tuning (N6)				
Session - 4.5	Mr. Sahibpreet Single Scientists	n & team of Data	Hands-on Lab Session - Deploying Models in Flask (N12)				
Day 5: 25th Novem	ber, 2020 (Wedeneso	day)					
9:00am-10:30am	10:30am-10:45am	10:45am-12:15pm	12:15pm-12:45pm	12:45pm-2:15pm	2:15pm-2:30pm	2:30pm-4:00pm	4.00pm-4.30pm
Session - 5.1	Break	Session - 5.2	Lunch	Session - 5.3	Break	Session - 5.4	Valedictory
Session - 5.1	Mr. Gurmukh Singh	0033011 - 0.2	Convolution Neural	•	Dicak	00000011 - 0.4	Valculatory
Session - 5.2	Mr. Parthosarothi Mukherjee		Recurrent Neural Networks				
Session - 5.3	Mr. Parthosarothi Mi		Hands-on Lab Session - Tensorflow and Keras, RNN, CNN for Image Analysis (N10)				
Session - 5.4	Data Scientists Mr. Gurmukh Singh	& team of Data	Hands-on Lab Session - Tensorflow and Keras, RNN, CNN for Image Analysis (N11)				
	Scientists						
			Valedictor	у			

Evaluation: There will be a MCQ test of 5 marks the end of each day based on the content covered for the respective day. Attendance in all sessions is mandatory.

Sessions

Online via Zoom link to be shared on your email ID.

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