

Schedule of 3-days workshop on Medical Data Analysis using Python -- Applications of Machine Learning / Deep Learning with Hands-On

[Revised on 11 June, 2024]

**Venue: Computer and Statistical Service Centre (CSSC),
4th Floor, S. N. Bose Bhavan, Indian Statistical Institute,
203, B. T. Road, Kolkata -108**

Date	Time	Event	Speaker	Organization
12-06-24				
	10:30-10:45	Inauguration		
	Tea			
	11:00 - 12:00	Introduction to Machine Learning Algorithms	U. Bhattacharya	ISI
	12:00 - 13:30	Python as a universal tool	A. Sarkar	JU
	Lunch			
	14:30 - 15:30	Cardiovascular Disease Classification with Machine Learning	A. Ukil	TCS Research
	15:30 - 16:45	Annotation efficient ML for healthcare, and medical image super-resolution	A. Paul [Online]	IITJ
	Tea			
	17:00 - 18:30	Hands on python programming including "pyradiomics" and "pydicom" packages	SP Lab, CVPRU HR Lab, CVPRU IP Lab, ECSU	ISI
13-06-24				
	10:30 - 11:45	RETechCare: Reliable, Explainable and Trustworthy machine learning models for Health Care	U. Garain	ISI
	Tea			
	12:00 - 12:30	Radiological and Imaging Data Analysis - A Radiologist's perspective	S. Chakraborty	IPGMER
	12:30 - 13:00	The Comprehensive Impact of AI and Machine Learning in Cardiac Surgery	P. Narayan	RTIICS
	13:00 - 13:30	Importance of Radiological scores and Liquid biopsy in predicting Thyroid malignancy	S. Ghosh	IPGMER
	Lunch			
	14:30 - 15:30	Clinical/Survival data analysis	A. Ghosh	ISI
	15:30 - 16:15	Universal Penalized Regression (Elastic-net) model with differentially methylated promoters for Oral cancer prediction	R. Chatterjee	ISI
	Tea			
	16:30 - 17:30	At the Crossroad of Health Sciences and AI	A. K. Talukder	ARAI Solutions & BlueRose Technologies
	17:30 - 18:30	Hands-on "Basic Machine Learning (Supervised & Unsupervised) Algorithms"	HR Lab, CVPRU SP Lab, CVPRU	ISI

14-06-24	10:30 - 11:30	Quantification of Glioblastoma from MRI	A. K. Dhara	NIT, Durgapur
	Tea			
	11:45 - 13:00	Large Visual Language Models in Medical Informatics: Promises and Dangers	S. Das	ISI
	13:00 - 13:30	AI in Radiodiagnosis	S. Chakrabarthi	Peerless Hospital
	Lunch			
	14:30 - 15:30	Can AI transform a Disease Care System into a Health Care Initiative? Some ideas	P. Chakrabarti	NRS Medical College (Ex. Prof.), ZOHO
	15:30 - 16:30	Where I failed in implementing medical image processing system?	D. P. Mukherjee	ISI
	Tea			
	16:45 - 17:30	Hands on "Deep Architecture for Medical Image Segmentation & Classification"	HR Lab, CVPRU	ISI
			SP Lab, CVPRU	
	17:30 - 18:30	Panel Discussions (Prof. Dr. P. Chakrabarti, Prof. S. Banerjee, Prof. D. P. Mukherjee, Prof. U.	Zoho Corp. ISI,	
	18:30	Certificate Distribution & Closure of the event with vote of thanks	S. Palit	ISI