

**Workshop on
“Computer Vision for Medical Imaging (CVMI)”**

January 17th - 19th, 2023 | 9:00 am to 5:00 pm
Venue: Seminar Room, 14th Floor, University Centre Building,
Aga Khan University, Karachi

Course faculty:

Prof. Dr. Syed Ather Enam (AKU)
Dr. Kiran Aftab (AKU)
Prof. Dr. Ahmad Raza Shahid (NUCES-FAST, Islamabad)
Dr. Shahabuddin Ansari (GIK Institute)

Course facilitators:

Ms. Ummul Wara Khan (AKU)
Ms. Anum Fatimah (NUCES-FAST, Islamabad)
Mr. Hasan Nasir Khan (NUCES-FAST, Islamabad)

***Participants are required to bring their own laptops for the hands-on sessions.**

Programme

Day 1

Time	Topic	Faculty / facilitator
08:30am to 09:00am	Registration	
09:00am to 09:15am	Workshop Objectives, Pre-Workshop Quiz	
09:15am to 09:30am	Keynote Address	Prof. Dr. Syed Ather Enam
09:30am to 11:00am	Basic concepts in Machine Learning	Dr. Shahabuddin Ansari
11:00am to 11:15am	Tea break	

11:15am to 01:00am	Hands-on session: MRI Annotation on 3D slicer	Dr. Kiran Aftab, Ms. Ummul Wara Khan
01:00pm to 02:00pm	Lunch and Prayer break	
02:00pm to 03:45pm	Hands-on session: MRI Annotation on 3D slicer	Dr. Kiran Aftab, Ms Ummul Wara Khan
03:45pm to 04:00pm	Tea break	
04:00pm to 05:00pm	Hands-on session: Python Installation and Basics	Dr. Ahmad Raza Shahid, Ms. Anum Fatimah, Mr. Hasan Nasir Khan
End of Day 1		

Day 2

09:00am to 09:45am	Radiomics and Radiogenomics	Dr. Kiran Aftab
09:45am to 10:30am	Radiomics Applications in Brain Tumors Management	Dr. Kiran Aftab
10:30am to 10:45am	Tea Break	
10:45am to 01:00am	Hands-on session: Python Basics/ Python Libraries	Prof. Dr. Ahmad Raza Shahid, Ms. Anum Fatimah, Mr. Hasan Nasir Khan
01:00pm to 02:00pm	Lunch and Prayer break	
02:00pm to 3:45pm	Hands-on session: Pre-processing MRI data	Prof. Dr. Ahmad Raza Shahid, Ms. Anum Fatimah
3:45pm to 04:00pm	Tea Break	
04:00pm to 05:00pm	Hands-on session: Pre-processing MRI data	Prof. Dr. Ahmad Raza Shahid, Ms. Anum Fatimah
End of Day 2		

Day 3

09:00am to 09:45am	Ethical and Challenges in Radiomics	Dr. Kiran Aftab
09:45am to 10:45am	Hands-on session: Pre-processing MRI data	Prof. Dr. Ahmad Raza Shahid, Ms. Anum Fatimah
10:45am to 11:00am	Tea Break	
11:00am to 01:00am	Hands-on session: Machine Learning Modelling	Prof. Dr. Ahmad Raza Shahid, Mr. Hasan Nasir Khan
01:00pm to 02:00pm	Lunch and Prayer break	
02:00pm to 3:45pm	Hands-on session: Machine Learning Modelling	Prof. Dr. Ahmad Raza Shahid, Mr. Hasan Nasir Khan
3:45pm to 04:00pm	Tea Break	
04:00pm to 05:00pm	Post workshop Quiz, Feedback and Distribution of Certificates	
	End of Day 3	