

Celebrating 25 years of ACTREC and 75 years of CRI

A workshop with hands-on on

AI/ML: From Classics to Agents



Sept. 30 – Oct. 1, 2026

Organized by

Department of Digital &
Computational Oncology
TMC-ACTREC



Registration and Prerequisites

- Please register using <https://forms.gle/hV7BN85Pxj9javzR7> on or before **15th September, 2026**.
- There are limited seats. Only selected participants will be communicated via email.
- Participant can be any PhD scholars, Post-Docs, Faculties, Clinicians, Scientists.
- Prior knowledge of Python is mandatory. All participants should bring their own laptops.
- A minimal registration fee Rs. 500/- for research scholars and post-docs and of Rs 1000/- for the rest.

PATRONS

Dr. Sudeep Gupta, Director TMC
Dr. Navin Khattry, Dy. Director ACTREC

Dr. Pankaj Chaturvedi, Director ACTREC
Dr. Sorab Dalal, Dy. Director ACTREC

Organizing Committee

Dr. Swapnil Rane
Dr. Nikhil Gadewal

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Dr. Gourab Das



Seminar Room, DCO, 1st Floor, R. Chidambaram Shodhika (RCS)
(Archival Building) ACTREC, Tata Memorial Centre.

Tentative Program

No.	Topic	Time
<i>Day 1(30th September): Overview of AI/ML</i>		
<i>Welcome note and overview of workshop and its outcomes</i>		9.45 AM – 10 AM
<i>Lecture + Hands-on Session</i>		10 AM – 1 PM
1	Overview AI/ML	10 AM – 10:45 AM
2	Feature Engineering and Selection	10:45 AM – 11.30 AM
<i>Tea Break</i>		11:30 AM -11:45 AM
3	Classifier Training, testing and evaluation	11:45 AM – 1:00 PM
<i>Break</i>		1 PM – 2 PM
4	Introduction to neural networks	2 PM – 3 PM
5	Unsupervised ML using SOM	3 PM – 4:15 PM
<i>Tea Break</i>		4:15 PM - 4:30 PM
6	Supervised ML using MLP	4:30 PM – 5:45 PM
Faculties: Dept. of Digital and Computational Oncology		
<i>Day 2(1st October): Generative AI</i>		
<i>Lecture + Hands-on Session + Demo</i>		10 AM – 1:15 PM
1	Introduction to Generative AI and Large Language Models	10 AM – 11 AM
2	In-house LLM Deployment: Ollama and vLLM	10:45 AM – 11:30 AM
<i>Tea Break</i>		11:30 AM -11:45 AM
2	Hands-on: Setting Up and Accessing Local LLMs	11:45 AM – 1:15 PM
<i>Break</i>		1:15 PM – 2:15 PM
3	Introduction to AI Agents and Agent Framework Setup	2:15 PM – 3 PM
4	Hands-on: Building an Agent with an In-house LLM	3 PM – 4 PM
<i>Tea Break</i>		4 PM - 4:15 PM
5	Agent-based Data Processing and Statistical Analysis	4:15 PM – 5:30 PM
<i>Concluding remarks and vote of thanks</i>		5:30 PM – 5:45 PM
Faculties: Dept. of Digital and Computational Oncology		