

# Workshop on Artificial Intelligence, Machine Learning & Computational Intelligence

## Inter University Accelerator Centre, New Delhi

### PROGRAM SCHEDULE: DAY-1

Presenter	Organization	Presentation Title	Download Link
Prof. A. C. Pandey	Director, IUAC	Opening Remarks and Overview of IUAC	<a href="#">VIDEO</a>
Dr. Nandini Kannan	Exe. Director, IUSSTF	Inaugural Talk: “The AI revolution: Enabling and Advancing Discoveries in Science”	<a href="#">VIDEO</a>
<b>Session-1</b>			
Prof. Seshan Srirangarajan	IIT Delhi	Machine Intelligence and Learning	<a href="#">TALK</a>   <a href="#">VIDEO</a>
Prof. Vineeth N Balasubramanian	IIT Hyderabad	Introduction to Machine Learning & Convolutional networks	<a href="#">TALK</a>   <a href="#">VIDEO</a>
Prof. A. P. Prathosh	IIT Delhi	Learning from Unlabelled Data	<a href="#">VIDEO</a>
Prof. Rajendra Pamula	IIT Dhanbad	Machine Learning for Wireless sensor network	<a href="#">VIDEO</a>
<b>Session-2</b>			
Prof. Arijit Mondal	IIT Kharagpur	Computation hungry deep learning models into Microcontrollers & embedded systems	<a href="#">TALK</a>   <a href="#">VIDEO</a>
Prof. Vinay Namboodiri	IIT Kanpur	Introduction to Multimodal AI & Applications	<a href="#">VIDEO</a>
Prof. Balaraman Ravindran	IIT Madras	Reinforcement learning	<a href="#">VIDEO</a>
<b>Session-3</b>			
Mr. Rohit Prajapati	DigiToad Technologies	Sensor Intelligence, Adding Edge AI to existing IoT Systems, Vibrational Analysis using Edge AI	<a href="#">TALK</a>   <a href="#">VIDEO</a>
Dr. Diptikalyan Saha	IBM India	Introduction to NLP & Ensuring Trustworthy AI through AI model	<a href="#">TALK</a>   <a href="#">VIDEO</a>
Mr. Sivhari Nandakumar	NPOL, DRDO Lab, Trivandrum	Testing Python tools on Linux: Powerful Python tools for ML	<a href="#">VIDEO</a>
Mr. Arun Kumar L.	Raven Protocol, Bangalore	Practical AI applications: demonstrations/talk of deploying TinyML working models connected to embedded sensors	<a href="#">TALK</a>   <a href="#">VIDEO</a>

## PROGRAM SCHEDULE: DAY-2

Presenter	Organization	Presentation Title	Download Link
<b>Session-4</b>			
Prof. R.K. Shyamasundar	IIT Mumbai	IoT: Security Challenges and the Role of Machine learning for Security Enforcement	<a href="#">TALK</a>   <a href="#">VIDEO</a>
Prof. Vijay Janapa Reddi	Harvard, USA	TinyML and its applications	<a href="#">VIDEO</a>
<b>Session-5</b>			
Dr. Luigi Serio	CERN	Machine Learning-Based Availability and Reliability Assessment	<a href="#">TALK</a>
Prof. Jayadeva	IIT Delhi	Learning to find the needle in a haystack	<a href="#">VIDEO</a>
<b>Session-6</b>			
Prof. Kaushik Saha	IIT Delhi	Swarm Intelligence System for Detection of Cyber Attacks on IoT Clusters	<a href="#">TALK</a>   <a href="#">VIDEO</a>
Prof. Vipul Arora	IIT Kanpur	Machine learning for Physics, Generative Machine Learning for Spin Systems in Statistical Physics	<a href="#">TALK</a>   <a href="#">VIDEO</a>
Mr. Dominik Vilsmeier	GSI, Germany	ML-based correction methods for IPM space-charge distortion	<a href="#">TALK</a>   <a href="#">VIDEO</a>
<b>Session-7</b>			
Mr. Samrit Kumar Maity	CDAC, Pune	Convergence of HPC and AI - HPC as compute backbone to AI workload	<a href="#">TALK</a>   <a href="#">VIDEO</a>
Mr. Surendra Yadav Accelerators	RRCAT, Indore	Application of Modified Real Coded Genetic Algorithm for RRCAT	<a href="#">TALK</a>   <a href="#">VIDEO</a>