

Workshop on Edge Artificial Intelligence

“ We thank you very much for the sessions. It was very much informative and particularly the case studies and examples were explained well “

- Prof Chitra, HOD, CS, TCE , Madurai

Workshop Topic	Edge Artificial Intelligence
Objective	Enable ‘makers’ by providing them theory & hands-on skills of Edge AI
Duration	2 x Half-day sessions(3.5 hrs each)
Audience	All interested in practical Edge AI
Pre Requisite	<ol style="list-style-type: none"> 1. Basic knowledge of Ubuntu Linux and Python 3.6 2. No prior knowledge of AI/ML is required
H/W	Ubuntu Linux Laptop with Webcam
Mode	Remote online

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	Day 1		Day 2
Session -I 9.30 AM - 10.45 AM	Introduction to Edge AI	Session –IV 9.30 AM - 10.45 AM	Edge AI Software/Computer Vision
	<ul style="list-style-type: none"> - Edge AI Challenges & Trends - What is AI/ML/DL? - What is Edge or Edge Computing ? - Data / IOT - Work flow, Training& Inference - Edge AI architecture - Introduction to Edge AI - Hardware,Software/Libraries/- - Programming & Applications 		<ul style="list-style-type: none"> - Edge AI Software - Edge AI Data set - Introduction to computer vision - Introduction to OpenCV - Computer Vision Data Sets - Core Computer Vision Operations - Face Detection and Face Recognition - Understanding Haar Cascades - What is Object Detection
	Break : 10.45 AM - 11.00 AM		Break : 10.45 AM - 11.00 AM
Session - II 11: AM - 12.15 PM	Edge AI Hardware	Session – V 11: AM - 12.00 PM	Hands-on Computer Vision
	<ul style="list-style-type: none"> - System on a Chip (SoC) - Edge Hardware / other Edge devices - GPIO - Accelerated computing with GPU - GPU Libraries and GPU Programming 		<ul style="list-style-type: none"> - Install OpenCV - Perform Computer Vision operations - Configuring and testing Camera - Face Detection - Face Recognition - Object Detection
SessionIII 12:15 PM -12.45 PM	Edge AI Hardware Demo	Session - VI 12.00 PM - 12.45PM	Edge AI Applications
	Live Image processing , simulation, demos on GPU		<ul style="list-style-type: none"> - Edge AI Application scenarios - Agriculture - Smart City - Industry - Autonomous Car - Gesture detection - Robotics - Video Surveillance