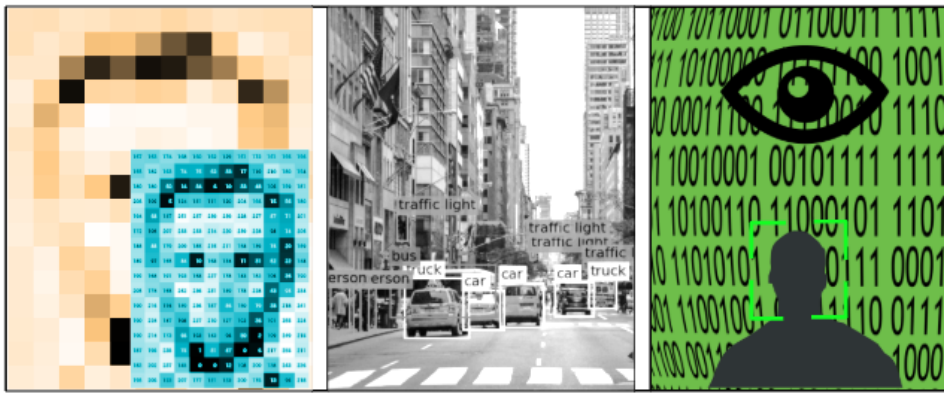
Webex Workshop on

COMPUTER VISION AND IMAGE PROCESSING



HANDS ON EXPERIENCE AND REAL TIME PROBLEM SOLVING

Build image processing applications on your own

- Introduction to industry oriented softwares Anaconda IDE and OpenCV
- Understand the image processing methods like Zooming, Shrinking, Cropping, Color Conversion etc and their importance in various fields like medical, industrial and defence

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https://tqb.li2.in/webex/

Cisco thingQbator

NASSCOM® FOUNDATION

Image Processing

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OpenCV

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Anaconda

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Accessing Images to your Code

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Project ideation

DATE : **06, 09, 10, 11 DECEMBER**

TIMINGS : **17:30 - 20:30**

Knowledge and Content by

Li2-Technologies
Lead · Innovate · Implement

SESSION PLAN

6 December	Introduction and Image acquisition
17:30 - 20:30	Introduction to Images - Human Eye,Retina vs CMOS, pixels
	Installation and Setup for Image and Video Processing - Python IDE, OpenCV
	Guided Experiment - Reading and Displaying Webcam Feed - Loading and Saving Images to drive
	DIY Playground - Webcam coloured pixel detection

9 December	Filters and Image operations
17:30 - 20:30	Introduction to Image Enhancement
	Guided Experiment - Histogram equalisation - Gamma Correction
	Introduction to ROI, Multi-Stage
	Guided Experiment - ROI detection - Manual ROI selection
	DIY Playground - Applications of Image processing in security and surveillance - Pixel Difference to Find ROI - Zooming in on ROI and saving to disk

10 December	Video applications
17:30 - 20:30	Introduction to Video
	Guided Experiment - IPCam to Python over LAN
	Introduction to computer Vision in Medical Application
	Guided Experiment - Different thresholding method
	DIY Playground - Blood group detection

11 December	Blobs and tracking
17:30 - 20:30	Introduction to Advanced Video Operation
	Guided Experiment - Computer Vision Applications like – Edge detection (SOBEL/HARRIS) - Blob detection
	DIY Playground - Security application like target tracking - CAMShift