



CENTER FOR COMPUTER VISION RESEARCH

Next Generation AI Enabled



Internship Modules for Engineering students

Eligible: Engineering students, No pre-requisite

Resources @ the center

1. Workstations -Intel® Core™ i9-10900K(10 Core) Nvidia Quadro P620
2. JETSON NANO Developer Kits (GPU)
3. Cameras (IR, Bullet, IP, Body Worn, PTZ, Wi-Fi Bullet)
4. Turbo HD DVR DS-7400 Series
5. Luxriot Video Management and Analytics Software

Projects that can be undertaken @ the Centre for Computer Vision RVCE

1. Visual Question Answering (VQA) on Medical Images: Develop models that can answer detailed questions about medical images, such as X-rays or MRIs.
2. Construction Progress Monitoring Using Aerial Imagery: Utilize high-resolution aerial images to monitor and analyze construction site progress.
3. Robotic Task Planning from Human Demonstrations: Enable robots to learn tasks through human demonstrations captured in videos.
4. Cross-Modal Retrieval Using CLIP: Develop systems that can retrieve images based on textual descriptions and vice versa. Implement Contrastive Language-Image Pre-training (CLIP) to align visual and textual data in a shared latent space.
5. A computer vision based IV fluids and drip monitoring system at patient's bedside
6. Automatic vehicle collision detection on roads/highways by surveillance cameras.
7. Automated product placement in video
8. Color Detection & Invisibility Cloak
9. Industrial workers safety inspection related to PPE by surveillance cameras
10. Automatic fire and smoke detection by surveillance cameras
11. To build an Automatic Human Pose detection system.
12. Subject detection in video
13. To develop a People Count mechanism by capturing camera images
14. Machine Vision (Inspection Systems)
15. Non-Contact Measurements
16. Flaw Detection
17. Video Summarization and Synopsis
18. Environment Watch and Safety



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Industry Partners



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CyberRange



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Projects that can be undertaken @ the Centre for Computer Vision and CyberRange RVCE

1. ML-Based Malware Family Classification
2. Phishing Email Detection Using NLP
3. Unsupervised Anomaly Detection in Network Traffic
4. Adversarial Attack & Defense on Image-Based CAPTCHA
5. Explainable AI for Intrusion Detection Alerts
6. Automated Vulnerability Summary Generation with Transformer Models



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