KLEF Deemed to be University

DEPARTMENT OF ECE

REPORT ON SIL EVENT CONDUCTED BY TEACH A MACHINE CLUB

DEEPLEARNING FOR COMPUTER VISION APPLICATIONS

Series 3

Date-13/12/23   **Venue- R204**

FACULTY IN-CHARGES

Dr.E.KIRAN KUMAR

Dr.P.V.V.KISHORE

STUDENT CO-ORDINATORS

P.Abbas Ali – 2100040087

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Objective of the OpenCV Workshop

The objective of the OpenCV workshop was to provide participants with comprehensive knowledge and practical skills in utilizing OpenCV for image filtering and enhancement. The workshop aimed to achieve the following goals:

1. **Introduction to OpenCV:** Participants were introduced to the OpenCV library, its functionalities, and its applications in computer vision tasks.

2. **Image Filtering and Enhancement:** The workshop focused on teaching participants how to perform image filtering and enhancement techniques using OpenCV, including methods such as blurring, sharpening, edge detection, and color manipulation.

3. **Retroreflective Cameras and Use Cases:** A session was dedicated to educating participants about retroreflective cameras, their uses, and real-world applications such as in movies and motion tracking.

4. **Interactive Learning:** The workshop encouraged interactive learning through demonstrations and hands-on exercises, allowing participants to implement small programs using OpenCV and understand its working principles.

5. **Feature Extraction with Iris Dataset:** Participants were introduced to the iris dataset available in the sklearn library and learned how to extract features from it using OpenCV for further analysis and machine learning tasks.

6. **Practical Implementation:** The ultimate objective was to equip participants with the skills and knowledge required to apply OpenCV effectively in real-world scenarios, enhancing their capabilities in image processing and computer vision.

Overall, the workshop aimed to bridge the gap between theoretical concepts and practical implementation, empowering participants to leverage OpenCV for image processing tasks and explore its diverse applications.

Description of the OpenCV Workshop:

The OpenCV workshop was centered around retroreflective cameras and their use cases. Participants were introduced to the concept of retroreflective cameras and their applications in various fields, including movies and motion tracking.

The session began with an overview of retroreflective cameras, explaining how they function and highlighting their unique features that make them suitable for specific tasks. Use cases were discussed to showcase the practical applications of these cameras, emphasizing their role in modern technologies and industries.

A live demonstration was conducted to give participants a hands-on experience with retroreflective cameras. The demonstration focused on tracking the bowling action of a fast bowler, illustrating how retroreflective cameras can capture precise movements and provide valuable insights for analysis.

The interactive nature of the session allowed participants to grasp the technical aspects of retroreflective cameras and understand their significance in advanced imaging systems.

Overall the OpenCV workshop was informative and engaging, offering participants a deeper insight into retroreflective cameras and expanding their knowledge of cutting-edge imaging technologies.

Outcome of the OpenCV Workshop:

The outcome of the OpenCV workshop was highly informative and impactful, leading to several key takeaways for participants:

1. **Understanding of Retroreflective Cameras:** Participants gained a comprehensive understanding of retroreflective cameras, including their working principles, advantages, and applications in various industries.

2. **Real-World Use Cases:** The session provided insights into real-world use cases of retroreflective cameras, such as their role in movie production, motion tracking, and other advanced imaging applications.

3. **Hands-On Experience:** The live demonstration allowed participants to witness firsthand how retroreflective cameras track precise movements, enhancing their practical knowledge and technical skills.

4. **Technical Knowledge:** Participants acquired technical knowledge about retroreflective camera technology, enabling them to appreciate the complexities and capabilities of advanced imaging systems.

5. **Interactive Learning:** The interactive nature of the session facilitated open discussions, questions, and exchanges of ideas, creating a dynamic learning environment and promoting knowledge sharing among participants.

Overall, the OpenCV workshop significantly contributed to participants' understanding of advanced imaging technologies, specifically retroreflective cameras, and prepared them to explore further applications and advancements in the field of computer vision and image processing.

GEO Tagged Photos
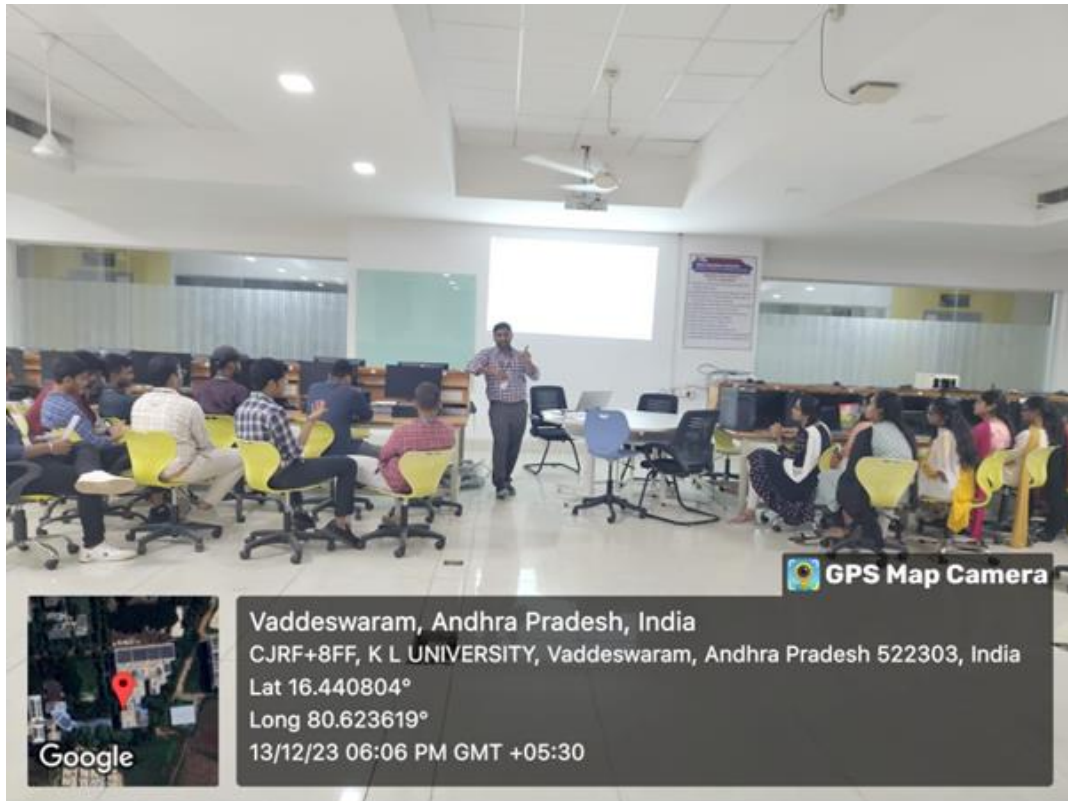
No of students attended the Event - 51

Students Attended

13-12-2023

S.No	ID No	Full Name of the Student	Signature
1	2200030276	PERUMALLA BHASWANTH	
2	2200030287	PIDIKITI JAHNAVI	
3	2200030310	CHALLA SAMUEL SIDDHARTHA REDDY	
4	2200030359	CHANDANAM THEJONADH	
5	2200030490	THADIGATLA VIVEK REDDY	
6	2200030570	NAGARAJ VIGNESH KUMAR	
7	2200030733	CHITIRALA NIKITHA	
8	2200030758	KUMMARI ARUNKUMAR	
9	2200030970	PADALA KARTHIKA	
10	2200031106	BOLISETTY VISHNU SAMHITHA	
11	2200031176	GANTA ROHINI REDDY	
12	2200031333	MARISETTI LAKSHMI VENKATA PHANINDRA KUMAR	
13	2200031610	LEENA NARMADA GUMMA	
14	2200031662	BANDLA LAVANYA	
15	2200031687	MUNDURU SRI SHRIYA	
16	2200031717	MALLAMPATI VISHNU PRIYA	
17	2200031814	LANKA RUCHITHA	
18	2200031818	KALLAM MOHITHA REDDY	
19	2100040024	M.H.G SUBHANG	
20	2100040087	P.ABBAS ALI	
21	2100040369	T.PRASHANTH KUMAR	
22	2200040014	P.GAYATHRI	
23	2200040015	S.VYSHNAVI	
24	2200040022	GOPINADH.V	
25	2200040026	YUVA	
26	2200040046	BALAJI	
27	2200040214	B.VIVEK	
28	2200040227	LALITHA SINDHURI.V	
29	2200040285	PUJITHA.M	
30	2200040293	M.VYSHNAVI	
31	2200049022	CH.THANUSHA	
32	2200049077	YASHWANTH	
33	2200049093	D.BHANU TEJASRI	
34	2200049105	S.DEEPTHI	
35	2200049109	SANDEEP	
36	2200049110	M.VISHAL VASHAN	
37	2200049112	CHAKRI	
38	2200032952	KATAKAM HARSHITH GUPTA	
39	2200033092	ANANYA SINHA	
40	2200033099	BANDARU GANESH ATCHYUTH	
41	2200033204	BOJJA HEMANVITH	
42	2200033231	MANCHURI PURUSHOTHAM	
43	2200033238	GOGIKARU SAI DHANUSH	
44	2200033283	R PAVANI	

45	2200039011	GUDAPATI DEVARSHI	
46	2200040052	VEGESNA BHAGAVAN MANIKANTA VARMA	
47	2200040053	VEGESNA INDRA VENKATA DURGA VARMA	
48	2200040089	MANE NAGA SREE SAI CHARAN	
49	2200040326	TENTU SAI CHARAN	
50	2200040331	KUSUMANCHI VENKATA SAI AKHIL	
51	2200049055	CHITUMADUGULA RAJA SRIMANTH	

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Incharge

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