NEW HORIZON COLLEGE OF ENGINEERING

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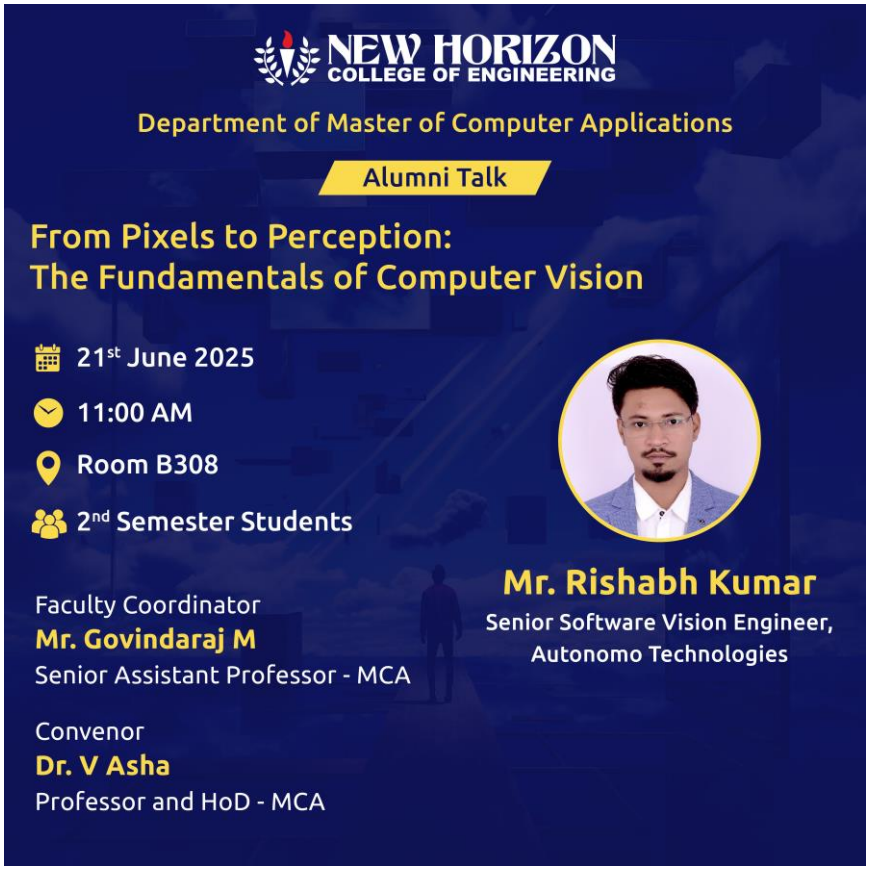
Report of Alumni Talk

on

From Pixels to Perception: The Fundamentals of Computer Vision

Organised by

Department of MCA



Date: 21st June 2025

Timing: 11 a.m. to 1 p.m.

Organised by: MCA Department

Faculty Programme Co-ordinator: Prof. Govindaraj M, Sr. Assistant Professor, Department of MCA, New Horizon College of Engineering, Bengaluru.

Convenor: Dr. V. Asha, Professor and Head, Department of MCA, New Horizon College of Engineering, Bengaluru.

Participants: II Sem MCA Students

No. of participants: 50

Details of the Resource Person

Mr. Rishab Kumar

Sr. Computer Vision Engineer, Autonomo Technologies, Bangalore.

Profile of the Expert

Mr. Rishab Kumar is a Computer Vision Engineer currently working in Autonomo Technologies, Bangalore.

Overview

- 4 years of overall experience as a Computer Vision Engineer.
- Hands-on experience in the domain of Machine Learning, Data Science, Computer Vision, and Artificial Intelligence.

Work Experience

- Aug. 2021 – Feb. 2023 Telaverge Solutions, Bangalore.
- Feb 2023 – till date Autonomo Technologies, Bangalore.

Objectives

The objective of the sessions is to give an insight on the Fundamentals of Computer Vision, related technologies, algorithms used, and applications.

To inspire students to pursue further research and projects in computer vision.

Summary of Content

During the session, the speaker covered the fundamentals of these areas stated below.

- Introduction to Computer Vision: Understanding how machines interpret visual data.
- Image Formation and Representation: Pixels, color models, and image formats.
- Basic Image Processing Techniques: Filtering, edge detection (Sobel, Canny), histogram equalization.
- Feature Extraction: SIFT, SURF, and ORB.
- Object Detection and Recognition: Haar cascades, HOG, YOLO, and CNNs.
- Deep Learning in Vision: Role of Convolutional Neural Networks (CNNs), and transfer learning.
- Computer Vision Applications: Medical imaging, surveillance, AR/VR, and robotics.
- Tools and Libraries: Introduction to OpenCV, TensorFlow, and PyTorch for vision tasks.

The talk concluded with a Q&A session where students posed questions related to computer vision careers, research opportunities, and hands-on tools. The speaker addressed queries enthusiastically and encouraged attendees to start experimenting with open-source tools and datasets.

Outcomes and Feedback

- Participants gained a clear understanding of the fundamentals of computer vision.
- The session motivated students to explore projects involving AI and image processing.
- Faculty appreciated the depth of content and the speaker’s ability to simplify complex concepts.

Conclusion

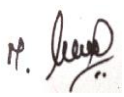
The expert talk on "The Fundamentals of Computer Vision" was highly informative and was received well by all attendees. It served as a valuable platform to introduce cutting-edge technology in the realm of computer science and artificial intelligence. The Department looks forward to organizing more such expert interactions in the future.

Snapshots of the session

Feedback

Name	Quality of the content	Clarity of the presentation	Effectiveness of the session with respect to learning	Overall feedback of the session	
Kavya G M	Good	Good	Good	Good	Yes
Keerthana G R	Fantastic	Super	Nice	Best	Yes
Kiran R	Good	Good	Good	Good	Yes
Karishma Singh	Excellent	Good	Good	Good	Yes

Kokkiligadda Vineela	Informative	Excellent	Simple and clear	Very Good	Yes
Koyalakuntla Harshitha	Good	Very Good	Good	Good	Yes
Lavanya K L	Good	Good	Very Good	Very Good	Yes
Lekhana G	Good	Good	Good	Good	Yes
M N Yashwanth Kumar	Very informative	Good	Good	Good	Yes
M Prajwal	Good	Good	Good	Good	Yes
Maddi Manojkumar	Good	Very Good	Very Effective	Good	Yes
Madhu GN	Good	Excellent	Good	Good	Yes
K Madhu Kumar	Good	Excellent	Good	Good	Yes
Madhushree G R	Good	Good	Awesome	Good	Yes
Mahabal Sanjay Khanannavar	Good	Good	Very Good	Good	Yes
Mahamed Sahil	Very Nice	Clear	Good	Good	Yes
Manjunathgoud M Patil	Good	Good	Very Good	Good	Yes
Manoj G L	Good	Good	Excellent	Moderate	Yes
Meenakshi J H	Good	Average	Fine	Good	Yes
Meghana R	Nice	Superb	Nice	Extreme	Yes
Mithesh P Kulal	Good	Good	Good	Basics	Yes
Monica B	Great	Great	Excellent	Good	Yes
N Bhargav	Good	Good	Good	Good	Yes
Nagaraj A	Excellent	Very Good	Nice	Extreme	Yes



Faculty HoD-MCA

New Horizon College of Engineering

DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS
EVEN SEMESTER - 2024-25

SEMESTER II - B SECTION

S. No	USN	Students Name	Signature
1	1NH24MC056	KAVYA G M	
2	1NH24MC057	KEERTHANA G R	
3	1NH24MC058	KIRAN R	
4	1NH24MC059	KARISHMA SINGH	
5	1NH24MC060	KOKKILIGADDA VINEELA	
6	1NH24MC061	KOYALAKUNTLA HARSHITHA	
7	1NH24MC062	LAVANYA K L	
8	1NH24MC063	LEKHANA G	
9	1NH24MC064	M N YASHWANTH KUMAR	
10	1NH24MC065	M PRAJWAL	
11	1NH24MC066	MADDI MANOJKUMAR	
12	1NH24MC067	MADHU G N	
13	1NH24MC068	K MADHU KUMAR	
14	1NH24MC069	MADHUSHREE G R	
15	1NH24MC070	MAHABAL SANJAY KHANANNAVAR	
16	1NH24MC071	MAHAMED SAHIL	
17	1NH24MC072	MANJUNATHGOUD M PATIL	
18	1NH24MC073	MANOJ G L	
19	1NH24MC074	MEENAKSHI J H	
20	1NH24MC075	MEGHANA R	
21	1NH24MC076	MITHESH P KULAL	
22	1NH24MC077	MONICA B	
23	1NH24MC078	N BHARGAV	
24	1NH24MC079	NAGARAJ A	
25	1NH24MC080	NAKSHITA N TANDEL	
26	1NH24MC081	NANDA KISHORE B M	
27	1NH24MC082	NARENDRA SINGH DEORA	
28	1NH24MC083	NARU RAMANA REDDY	
29	1NH24MC084	NAVEEN S	
30	1NH24MC085	NAZMIN B	
31	1NH24MC086	NEEL JOHNSON A	
32	1NH24MC087	NIDHISH MISHRA	
33	1NH24MC088	NIKIL VINAY	
34	1NH24MC089	NIKHITHA G S	
35	1NH24MC090	NIKITHA P	
36	1NH24MC091	NIRIKSHITH M V	
37	1NH24MC092	NISCHITHA K N	
38	1NH24MC093	NITISH KUMAR	
39	1NH24MC094	NITISH KUMAR	
40	1NH24MC095	P DELHI BABU	
41	1NH24MC096	PIYUSH	
42	1NH24MC097	POORVI R	
43	1NH24MC098	PRAJWAL B	
44	1NH24MC099	PRAJWAL N	

45	1NH24MC100	PRAMOD DIXIT	
46	1NH24MC101	PREETHAM B S	
47	1NH24MC102	PREETHAM K M	
48	1NH24MC103	PUNEETH KUMAR P	
49	1NH24MC104	R MANOGNA	
50	1NH24MC105	RAKESH P	
51	1NH24MC106	RANJITA SHRIRAM NIGALE	
52	1NH24MC107	RANJITHA	
53	1NH24MC108	RAVISHANKAR	
54	1NH24MC109	RISHAB ROY	
55	1NH24MC110	ROHINI BABU T B	
56	1NH24MC111	SAARTHAK KEHRI	
57	1NH24MC112	SAHIL RAJESH	
58	1NH24MC113	SAI SRINIVAS Y R	

Faculty

HoD-MCA

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