



GYANMANJARI INNOVATIVE UNIVERSITY

Department of Civil Engineering

Expert Talk Report

2025-26

VENUE: -Class - GF 28 (Seminar hall), GMIU, Sidsar road, Bhavnagar.

Program: - Diploma and B.Techin CivilEngg.

Semester: - 1st, 3rd, 5th and 7th Semester

Date: - 18.07.2025

Conducted by: -Prof. Gautam Zadafiya (H.O.D. of Civil Dept.)

Head of the Department, Civil Engineering Department

Gyanmanjari Innovative University, Bhavnagar.

Mobile No: - 7490908378.

Submitted By:

Prof. Gaurang Chauhan

TPA Coordinator – Civil Engineering Dept.



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ACKNOWLEDGEMENT

We would like to express our sincere gratitude to the management of Gyanmanjari Innovative University for organizing this valuable industrial visit. We are thankful to our respected **Principal, Head of Department, and all faculty members for their continuous support.**

Special Thank to our **Expert person Mr. Harvish Upadhyay (Automation Engineer)** who explain the topic of machine learning in details.



EVENT OVERVIEW

The Department of Civil Engineering, under the Training & Placement Cell, organized an expert talk titled “Machine Learning Applications in Industrial Machinery” to create awareness among students about the role of AI/ML in modern construction and infrastructure sectors.

The session focused on real-life examples such as predictive maintenance of equipment, automation in heavy machinery, AI-driven quality control in construction, and smart safety systems.

DETAILS OF THE EVENT

Particular	Details
Expert Name	Mr. Harvish Upadhyay
Designation	Automation Engineer
Company/Institute	Sofcon India Pvt Ltd
Mode	Offline
Duration	11:00 AM TO 01:00 PM
Target Audience	Diploma & B.Tech Civil Engineering Students
Number of Participants	38 students (Civil Department)
Coordinator	Prof. Gaurang Chauhan, TPA Coordinator



OBJECTIVES OF THE TALK

- ✓ To introduce students to emerging technologies in construction and civil equipment.
- ✓ To highlight how Machine Learning is used in construction machinery, equipment tracking, and maintenance.
- ✓ To inspire students to pursue interdisciplinary skills and tech-driven roles in the construction domain.



KEY TAKEAWAYS FROM THE SESSION

- ✓ Understanding the use of **predictive analytics** in machinery failure detection.
- ✓ ML-based **sensor data interpretation** in cranes, concrete mixers, and earthmovers.
- ✓ Role of AI in **smart construction sites**, drone monitoring, and automated material handling.
- ✓ Real-world case studies shared from showcasing ML integration in equipment fleets.
- ✓ Students encouraged to explore **IoT, and Data Science** in engineering applications.

ATTENDANCE

Diploma & B.Tech All In Civil

Gyanmanjari Innovative University (GMIU)		Gyanmanjari Diploma Engineering College		Attendance Record	
Department: Civil Engineering		DATE:- 19/07/2025		TIME:- 11:00 AM to 01:00 PM	
LOCATION:- GF-28		SUB:- on buscl.		PURPOSE:- Expert Talk whole dept.	
Academic Term :		NO. OF STUDENTS:-		SIGN.	
Sr. No.	ENROLLMENT No.	Student Name	P/A	SIGN.	
NO. OF STUDENTS:- DIPLOMA INTERIOR DESIGN 2024					
1	241105070001	DESAI PREKSHA	1	AB	
2	241105070002	DEVAMURARI DHARUVI	2	AB	
3	241105070003	HADIYA KHUSHI DINESH	3	AB	
4	241105070004	LEJU POOJA	4	AB	
5	241105070006	RAVAL NISHTHABEN ANANDBHAI	5	AB	
6	241105070008	VARDHAN PINAL	6	AB	
REMARKS					
NO. OF STUDENTS:- DIPLOMA CIVIL 2024					
1	241105020001	BUDHELIYA VIMAL PANCHABHAI	1	AB	
2	241105020002	CHAVDA BHARAT KAMABHAI	2	AB	
3	241105020003	DODIYA MEETRAJSINH JILUBHAI	3	AB	
4	241105020004	GHORI MANIK MUKESHBHAI	4	AB	
5	241105020005	GOHEL GAURAV DHARMENDRABHAI	5	AB	
6	241105020006	GOHIL RAJVEERSINH GHANSHYAMSINH	6	AB	
7	241105020007	JADEJA HARSHRAJSINH HARISHCHANDRASINH	7	AB	
8	241105020008	JADEJA JAYSINH AJAYSINH	8	AB	
9	241105020009	JETHVA SHAILESH VASHRAMBHAI	9	AB	
10	241105020010	JOSHI DHARUVI BHAVESHBHAI	10	AB	
11	241105020011	KACHA TIRTH JAGDISHBHAI	11	AB	
12	241105020012	LASHKARI PURVANSI DHARMESHBHAI	12	AB	
13	241105020013	MAHETAR MOHAMMAD AMAN ASIFBHAI	13	AB	
14	241105020014	MEHTA HARSH JITESH	14	AB	
15	241105020015	PARMAR DIPAKKUMAR AMARABHAI	15	AB	
16	241105020016	PARMAR HARIRAJAJSINH GIRIRAJAJSINH	16	AB	
17	241105020017	PARMAR VINAYBHAI JADAVBHAI	17	AB	
18	241105020018	PATEL RUDRA MANISHBHAI	18	AB	
19	241105020019	PRAJAPATI AMAN OMPRAKASH	19	AB	
20	241105020020	RAJYAGURU HARSH AKHILESHKUMAR	20	AB	
21	241105020021	SAHANI RAHUL MAINEJAR	21	AB	
22	241105020022	SARVAIYA DHANANJAYSINH KARMADEEPSINH	22	AB	
23	241105020023	SIDDHPURA SHUBHAM VIPULBHAI	23	AB	
24	241105020024	SOLANKI JAINISH PUNABHAI	24	AB	
25	241105020025	SONDAGAR GHANSHYAM HARSHADBHAI	25	AB	
26	241105020026	THAKOR YUGVEER CHIRAGBHAI	26	AB	

27	241105020027	TUVAR HARSHRAJSINH JITENDRASINH	27	AB
28	241105020028	VAGHELA JANISH AMITBHAI	28	AB
29	241105020030	VIDJA DHARMIK DHARAMBHAI	29	AB
30	241105020031	GOHIL KARMDIPSINH ANIRUDDHSINH	30	AB
31	241105020032	GIDWANI GAURAV RAHULBHAI	31	AB
32	241105020033	RATHOD DHRUV MANOJBHAI	32	AB

REMARKS		
NO. OF STUDENTS:-		DIPLOMA CIVIL 2023
1	20231005020001	CHUDASAMA KRUSHNAPALSINH DIGVIJAYSINH
2	20231005020002	DANGAR JAYPAL VASHRAMBHAI
3	20231005020003	JAMOD VISHWARAJ RAJESHBHAI
4	20231105020001	ACHARYA PARTH SUNILBHAI
5	20231105020003	PARMAR JEETSINH KANAKSINH
6	20231105020006	GOHIL BHAGYARAJ SINGH DEVENDRASINH
7	20231105020008	BABARIYA HARSHDEEP PRAKASHBHAI
8	20231105020010	PARMAR JASH ANILBHAI
9	20231105020017	MER PRATHAM MAHESHBHAI
10	20231105020018	GOHIL VISHVARAJ SINGH KULDIPSINH
11	20231105020019	KATARIYA DEV RAJESHKUMAR
12	20231105020020	KUVADIYA YUVRAJ HAKABHAI
13	20231105020021	METALIYA APURV HITESHBHAI

REMARKS		
NO. OF STUDENTS:-		DIPLOMA CIVIL 2022
1	214520306022	LALLUVADIYA HEET HARSHADBHAI
2	224520306001	BODANA YUVRAJ KALPESHBHAI
3	224520306002	BORDIWALA GULAM E MUSTUFA NURMAHAMMED
4	224520306006	DESAI YOMIN BHARATBHAI
5	224520306013	HARSORA SHUBHAM KISHORBHAI
6	224520306014	JADEJA OMDEVSINH DILIPSINH
7	224520306016	JOSHI DEVANSI PARESBHAI
8	224520306020	KALVA MUBIN PARVEZBHAI
9	224520306023	KHUNT VRAJ GHANSHYAMBHAI
10	224520306029	MAKWANA KRUNAL MAHESHBHAI
11	224520306032	MARU UDAYKUMAR KANUBHAI
12	224520306037	PATEL JEEL ALPESHBHAI
13	224520306044	SARVAIYA JAYRAJSINH SUKHDEV SINGH
14	234528306001	GARANIYA AJAY BHANUBHAI

Total = 19 students

Diploma & B.Tech All in civil
GYANMANJARI INNOVATIVE UNIVERSITY (GMIU)
Gyanmanjari Diploma Engineering College
Attendance Record

Department: Civil Engineering
LOCATION:- GF - 28
PURPOSE:- Expt for whole Dept.
Academic Term :
DATE:- 18/07/2015
TIME:- 11:00 AM to
SUB:- onward.

Sr. No.	ENROLLMENT No.	Student Name	P/A	SIGN.
NO. OF STUDENTS:- BTECH CIVIL 2024				
1	240905030002	BODANA DHRUMIL KALPESHBHAI	1	<u>[Signature]</u>
2	240905030003	CHABHADIYA ARYAN ASHVINBHAI	2	<u>[Signature]</u>
3	240905030004	CHAUHAN YUVRAJSINH DHIRUBHAI	3	<u>AB</u>
4	240905030005	DANKHARA HEET HARESHBHAI	4	<u>AB</u>
5	240905030006	GOHIL ADITYARAJ BHUPENDRASINH	5	<u>A.B. Gohil</u>
6	240905030007	GOHIL JAYVEERSINH KULDEEPSINH	6	<u>J.K. Gohil</u>
7	240905030008	GOHIL KARANSINH UPENDRASINH	7	<u>K.V. Gohil</u>
8	240905030009	JADEJA RUSHIKASINH KANAKSINH	8	<u>[Signature]</u>
9	240905030010	LADHAVA NIRAJBHAI DAYASHANKARBHAI	9	<u>[Signature]</u>
10	240905030011	MANSURI SHAADRAZA MOHAMADHUSSAIN	10	<u>AB</u>
REMARKS				
NO. OF STUDENTS:- BTECH CIVIL 2023				
1	20230905030001	VINZUDA ARJUN GOVINDBHAI	1	<u>AB</u>
2	20230905030002	VAGHASIYA DHRUV BAVCHANDBHAI	2	<u>AB</u>
3	20230905030004	SARVAIYA LAKSHDEVSI VASUDEVSI	3	<u>AB</u>
4	20230905030005	ZALA PRIYARAJSI JAGDEVSI	4	<u>AB</u>
5	20230905030008	PANCHAL KRISH HASMUKHKUMAR	5	<u>[Signature]</u>
6	20230905030009	VAGHELA ABHADIK GIRISHBHAI	6	<u>[Signature]</u>
7	20230905030010	JADEJA SHREERAJSI PARIPALSINH	7	<u>[Signature]</u>
8	240905031001	CHUDASAMA RUDRASINH SIDDHRAJSINH	8	<u>[Signature]</u>
9	240905031002	CHUDASAMA SURYARAJSI BIJENDRASINH	9	<u>[Signature]</u>
10	240905031003	GOHIL PUSHPRAJSINH HARDEVSI	10	<u>[Signature]</u>
11	240905031004	GOSWAMI HARSHGIRI HARESHGIRI	11	<u>AB</u>
12	240905031005	KAVA YASH JAYESHBHAI	12	<u>[Signature]</u>
13	240905031006	MAKWANA JAGDISHBHAI LAVAJIBHAI	13	<u>AB</u>
14	240905031007	MARU JAY JITENDRABHAI	14	<u>[Signature]</u>
15	240905031008	THAKKAR AMRITA BHAVESHBHAI	15	<u>AB</u>
16	240905031901	TUVAR ADITY RUTURAJSI	16	<u>AB</u>
17	240905031902	BHUKAN NITESH VALKUBHAI	17	<u>AB</u>
18	240905031903	VALA RUDRA AMITBHAI	18	<u>AB</u>
19	240905031904	PANDYA DEVAM DHARMESH	19	<u>AB</u>
20	240905031905	KATHIWALA SIDDIK ASIFBHAI	20	<u>AB</u>



NO. OF STUDENTS:-		DIPLOMA CIVIL 2022	
1	221290106001	JADAV ROHIT HARSHADBHAI	1
2	221290106002	MARU MANISHABEN ARVINDBHAI	2
3	221290106004	TRIVEDI MURTUZA SIRAJBHAI	3
4	231293106001	BHIL SURAJ JALAMBHAI	4
5	231293106002	CHUDASAMA HARSHDEEPSINH JAYENDRASINH	5
6	231293106003	LUMBHANI KAMAL HARESHBHAI	6
7	231293106004	PADAYA ABHAY DINESHBHAI	7
8	231293106005	PATEL DEVANSHU VIPULBHAI	8
9	231293106006	RANA KRUSHNADEV SINH VIRBHADRASINH	9
REMARKS		Total 19 students	

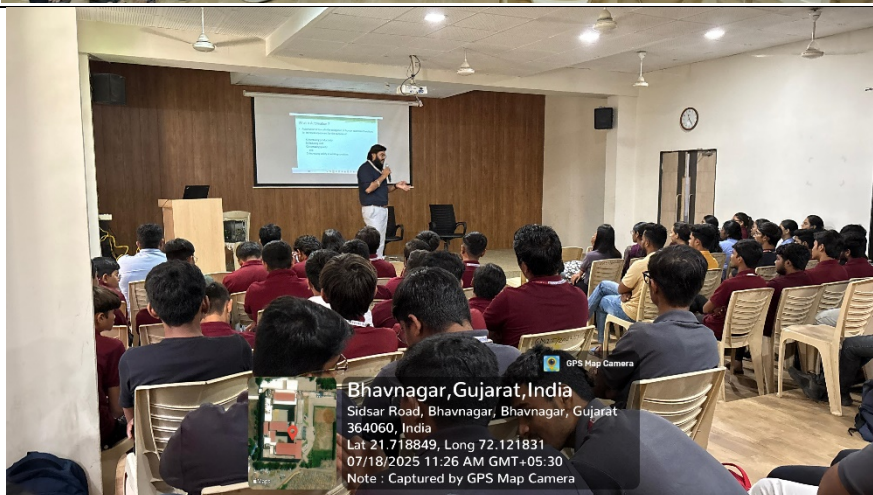
PHOTOGRAPHS

Details	Photos
Speaker addressing the students	 <p>Bhavnagar, Gujarat, India Sidsar Road, Bhavnagar, Bhavnagar, Gujarat 364060, India Lat 21.718897, Long 72.121978 07/18/2025 11:25 AM GMT+05:30 Note : Captured by GPS Map Camera</p>
Students interacting with the speaker	

Group photo



Glimpse of slides showing ML application in machines





CONCLUSION

The expert session opened new avenues for Civil Engineering students by highlighting the intersection.