AICTE Training and Learning Academy

Sponsored

LEVERAGING AI FOR ENHANCED HEALTHCARE DELIVERY SYSTEMS
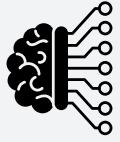
Application No: 1690970708

Faculty Development Program

18th December - 23rd December, 2023

Organised by
Computer Engineering Department,
L. D. College of Engineering, Ahmedabad

ABOUT

L. D. College of Engineering, *one of the oldest in the western region, has completed 75 years in June 2022 which attracts highest merit students. Our institute witnesses a tide of innovative ideas, many of them granted patents and high-end research publications. It has been ranked "Third" under the category "Colleges/Institutes (Govt. & Govt. Aided) (Technical)" in Atal Ranking of Institutions on Innovation Achievement (ARIIA) 2021, by the Ministry of Education, Government of India. L. D. College of Engineering, Ahmedabad is AICTE approved premier engineering college with 7 accredited programs in Gujarat. The institute is affiliated to GTU and administered by Department of Technical education, Gujarat State.*

Computer Engineering Department *works with the vision of achieving excellence for providing value based education in Computer Engineering through innovation, teamwork and ethical practices. Computer engineering at the L. D. college of engineering runs majorly three-degree programs; the bachelor of engineering in Computer Engineering, a newly introduced Bachelor of Engineering in Artificial Intelligence and Machine Learning, and master's in Computer Engineering and newly introduced honors degree program in "Minor degree in Artificial Intelligence and Machine Learning" which comprises 200 aspirants each year. The department is distinguished by a team of passionate academic staff with a wide range of research interests.*

Faculty Development Program:

In recent years, Artificial intelligence (AI) embodies the capacity of a computer or robot under computer control to carry out tasks often attributed to sentient entities, revealing a domain of machine-based intellect. AI has emerged as a powerful tool with immense potential to revolutionize the healthcare industry. AI applications in healthcare have shown promising results in disease diagnosis, treatment planning, personalized medicine, drug discovery, and patient care. The objective of this Faculty Development Program (FDP) is to equip healthcare professionals, researchers, and educators with the knowledge, skills, and tools to effectively leverage artificial intelligence (AI) technologies in healthcare settings. The program aims to foster an understanding of how AI can improve patient care, streamline healthcare processes, and facilitate medical research.

GENERAL INFO

Objectives of the Program:

- Familiarize faculty members with the fundamentals of AI and its applications in healthcare.
- Provide hands-on training in using AI tools and techniques for healthcare data analysis.
- Explore the ethical considerations and challenges associated with AI implementation in healthcare.
- Develop strategies to incorporate AI-based teaching methodologies in healthcare education.
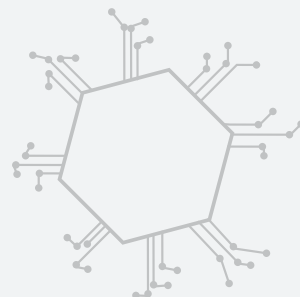- Encourage research collaborations and interdisciplinary projects involving AI and healthcare.

Outcome and Impact:

- Possess a comprehensive understanding of machine intelligence and its applications in healthcare.
- Acquire practical skills to implement AI-driven solutions in healthcare research and practice.
- Demonstrate ethical awareness in using AI technologies for patient care and data analysis.
- Be equipped to integrate ML/DL-based teaching methodologies into healthcare education.
- Have the foundation to initiate collaborative research projects involving AI and healthcare.

Who can participate:

The FDP is open to faculty members, industry personnel and researchers from engineering, medical, pharmacy and allied health science disciplines. Participants with diverse backgrounds will enrich the program's interactions and facilitate interdisciplinary collaborations.

(No registration fees)

TENTATIVE SCHEDULE

DATE & Time	18th Dec Day 1	19th Dec Day 2	20th Dec Day 3	21st Dec Day 4	22nd Dec Day 5	23rd Dec Day 6
9:00 to 9:30	Inauguration	-				
9:30 to 12:00	**Session 1** Role of AI-ML in Adaptive Control of Artificial Pancreas Dr. Dipankar Deb	**Session 3** Predictive Analytics and Early Disease Detection Dr. Dharamsingh Jat	**Session 5** Hybrid model of CNN and expert system for the Diagnosis of Leukemia Cancer Dr. Viral Kapadia	**Session 7** XAI In overall survival days prediction in brain tumor Dr. Mehul S Raval	Industrial Visit	**Session 10** AI for detection and diagnosis using Imaging and Voice based Application Ms. Manika Sharma
12:00 to 1:00	Article Discussion	Article Discussion	Article Discussion	Article Discussion		Reflection Journal
1:00 to 2:00	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch
2:00 to 4:30	**Session 2** Eye-tracking Measures and Methods to Monitor the Health of Human Operator while Handling Complex Systems, Dr Punit Bhavsar	**Session 4** Challenges for AI in healthcare applications Dr. M Sasikumar	**Session 6** Role of the AI in Healthcare with its Applications and Use Cases Dr. Amit Ganatra	**Session 8** Analyzing the Efficacy of AI Models for Healthcare Dr. Hardik Joshi	**Session 9** Integrating AI into Electronic Health Records (EHR) System Mr. Prashant Halari	MCQ, Feedback & Interactions
4:30 to 5:30	Practical sessions / Labs	Practical sessions / Labs	Practical sessions / Labs	Practical sessions / Labs	Practical sessions / Labs	Valedictory session

EMINENT SPEAKERS

Prof. Dipankar Deb
Professor
IIT-RAM

Dr. Punit Bhavsar
Assistant Professor
VNIT, Nagpur

Prof Dharm Singh Jat
Professor
University of Namibia

Dr M Sasikumar,
Executive Director
C-DAC Mumbai

Dr. Amit Ganatra
Provost
Parul University

Dr. Mehul S. Raval
Professor
Ahmedabad University

Dr. Viral Kapadia
Associate Professor
MS University, Baroda

Dr. Hardik Joshi
Assistant Professor
Gujarat University

Mr. Prashant Halari
CEO & Managing Director,
Synoverge Technologies
Pvt. Ltd.

Ms. Manika Sharma
Head, Multidisciplinary
Research Division
Institute for Plasma
Research

ORGANIZING COMMITTEE:

Patron:

Major (Dr.) Chaitanya S. Sanghvi,
Principal,
LD College of Engineering

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To register scan here!

- **No registration fees**
- **Limited seats available**
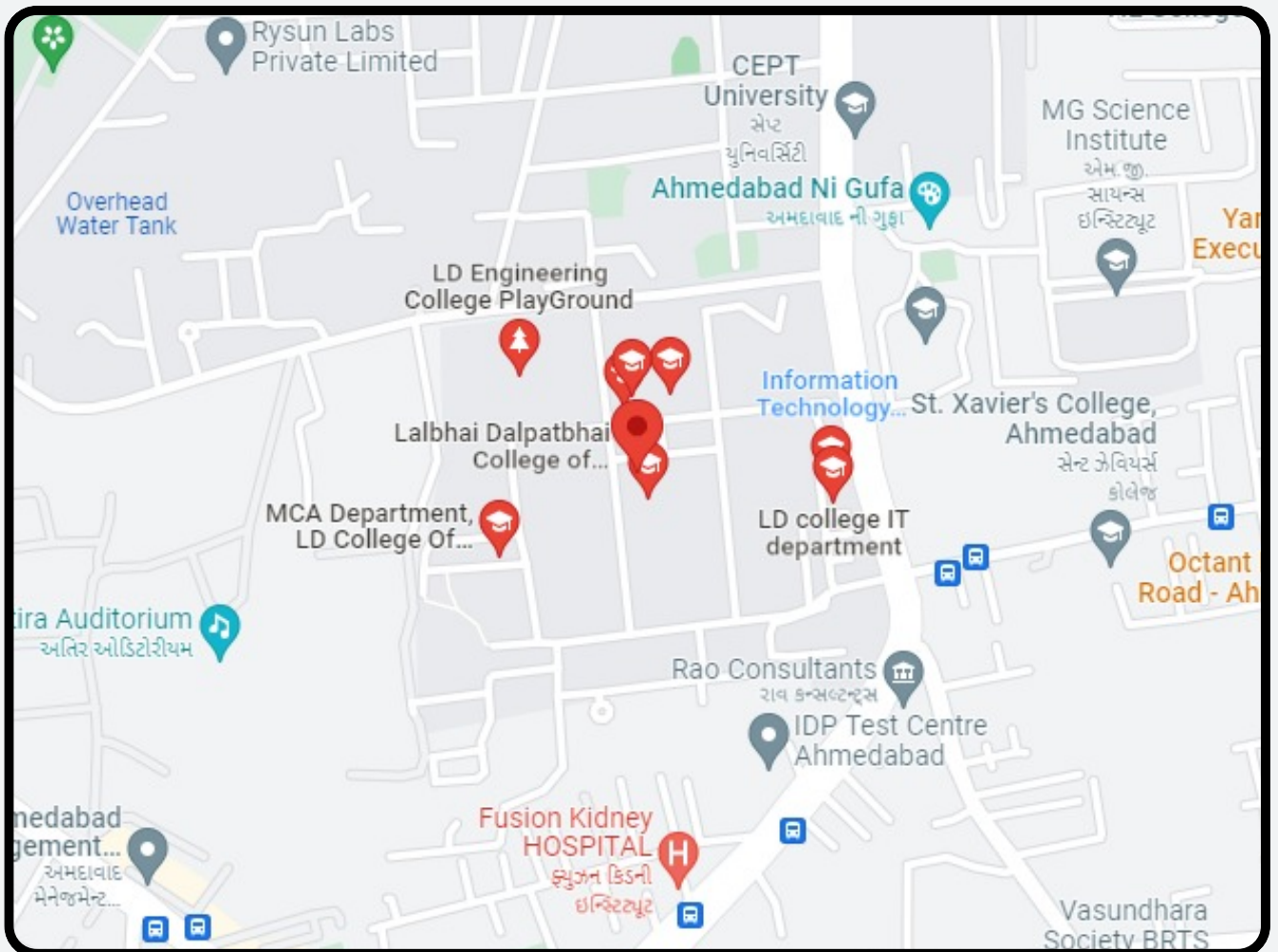- **https://sites.google.com/ldce.ac.in/ldce-fdp/**
- **For more information**
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  archana.gondalia@ldce.ac.in

Venue:

Upanishad Hall, Computer
Engineering Department,
L. D. College of Engineering,
Navrangpura, Ahmedabad

Date & Time:

18th December 2023
to
23rd December 2023
9:30 am to 5:30 pm