



JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY
WAKNAGHAT, P.O. – WAKNAGHAT,
TEHSIL – KANDAGHAT, DISTRICT – SOLAN (H.P.)
PIN – 173234 (INDIA) Phone Number- +91-1792-257999
(Established by H.P. State Legislature vide Act No. 14 of 2002)



AI for Atmanirbhar Bharat: HEI Pre-Summit Engagements towards IndiaAI Impact Summit 2026

Institution's Innovation Council (IIC)
in collaboration with
All India Council for Technical Education (AICTE)

Organize AI Expert Talk on

**AI for Atmanirbhar Bharat:
HEI Pre-Summit Engagements towards
IndiaAI Impact Summit 2026**

Title: AI-driven Model Optimization for IoT, Edge and Fog Computing

5th Feb, 2026, 09:00AM

IMPACT SUMMIT
भारत 2026 INDIA



Expert Speaker

Dr. Punit Gupta

University College Dublin, National College Ireland
Assistant professor, Pandit Deendayal Energy University, Gandhinagar , Gujarat

Topic: Recent Trends in AI-driven Model Optimization for IoT, Edge and Fog Computing

The Expert lecture on “Recent Trends in AI-driven Model Optimization for IoT, Edge and Fog Computing” was delivered by Dr. Punit Gupta, Assistant Professor, Assistant Professor in the Department of Computer Science and Engineering at Pandit Dean Dal



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Energy University India in online mode through Google meet on 05 February 2026 at 9:00 AM in the Digital Learning Centre (DLC), JUIT. A total of 72 students attended this session.

Dr. Punit Gupta, presented on optimizing fog and edge computing using AI and hybrid techniques to manage the massive data generated by sensors in real time and closer to the client, alleviating the load on central data centres. He explained the importance of resource allocation and load management in distributed computing, focusing on achieving a lower carbon footprint, energy efficiency, and reduced latency by distributing tasks across edge and cloud servers, with key objectives including computational and storage offloading and avoiding network congestion. The presentation also covered the shift from traditional heuristic algorithms to AI and machine learning models, such as deep neural networks, to generate optimization solutions in constant time, as well as emerging energy solutions for edge devices like solar power and sleep scheduling.

Dr. Punit Gupta explained that the rapid growth of sensors in smartphones, smart cities, traffic systems, and grids generates huge amounts of data in real time, which cannot be handled efficiently by cloud computing alone. Fog and edge computing solve this by processing data closer to users through intermediate servers, reducing latency, network



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congestion, and energy consumption. Lightweight edge devices run small AI models to make quick decisions, while only essential data is sent to the cloud. This approach supports real-time applications such as traffic management, smart grids, and autonomous systems.

He highlighted that optimization in fog–cloud systems focuses on efficient task scheduling, energy savings, load balancing, and reduced carbon emissions. AI and machine learning are increasingly used to replace slow traditional optimization algorithms, enabling faster and adaptive decision-making. Hybrid techniques combining heuristics and AI, along with energy-saving methods like renewable power, sleep scheduling, and AI-based data center cooling, are shaping future sustainable and scalable fog and edge computing systems.

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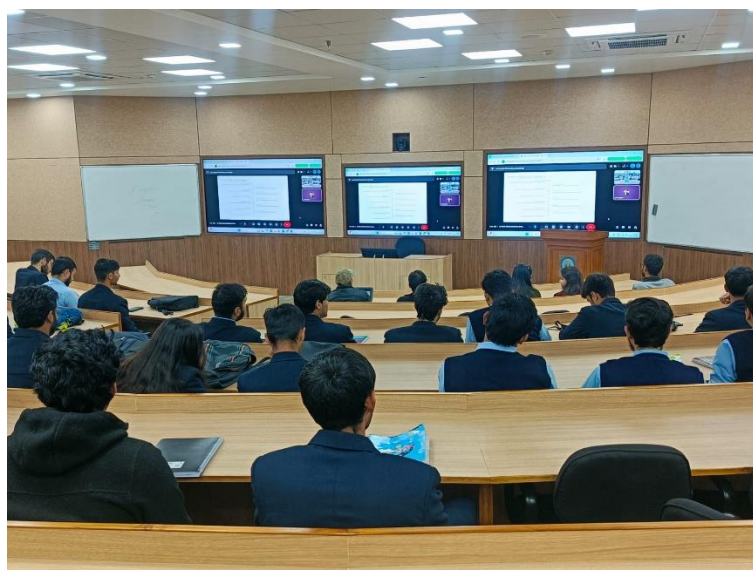
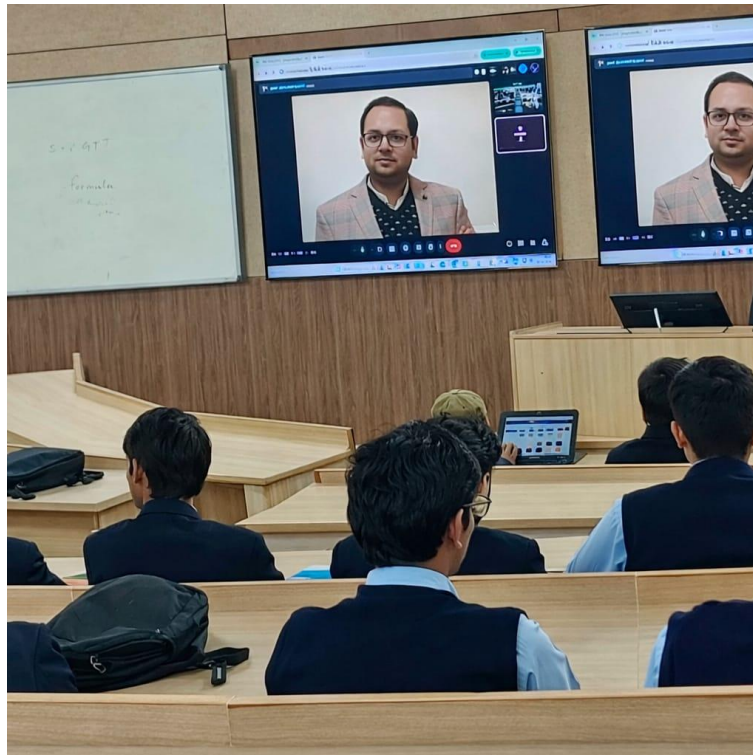
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Photograph of the event





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Attendance:

**AI for Atmanirbhar Bharat: HEI Pre-Summit Engagements towards IndiaAI
Impact Summit 2026.**

Topic :- AI-driven model optimization for IoT, Edge, and Fog Computing.

Speaker: Dr Punit Gupta

Date:- 05/02/2026

Venue: DLC JUIT

Time:- 09:00AM

S.NO	Name	Roll no.	Sign
1	Ayush Bhardwaj	241030310	
2	Karan Mishra	241030198	
3	Ripul Kashyap	241030095	
4	Anwar Mishra	241030312	
5	Divyansh	241030311	
6	Aditya Mahajan	241030169	
7	Divyansh Sharma	241030287	
8	Prashant Singh	241030176	
9	Kanayo Chaudhary	241030308	
10	Harsh Jain	241030210	
11	Tanmay Chaudhary	241030070	
12	Rishabh Chaudhary	241030077	
13	Yashwardhan Singh	241030082	
14	Harshit Rana	241030211	
15	Kalash Sharma	241030207	
16	Arnav Jain	241030105	
17	Rohit Singh	241030034	
18	Prithvian Singh	241030045	
19	Prakhar Singh	241030432	
20	Ishaan Gindolia	241030168	
21	Prerak Tewatia	241030307	
22	Aditya Suri	241030234	
23	Rushil Sharma	241030119	
24	Chirag Bhardwaj	241030238	
25	Anmol Dutt	241030181	
26	Manish Yadav	241030316	
27	Ravi Raina	241030316	
28	Vani Sharma	Faculty	
29	Meghna	Faculty	
30	Shambhoo Nuth	Faculty	
31	Ajeet K. Vena	Faculty	
32	AKHAY KUMAR	Faculty	
33	Ehta Gindolia	Faculty	
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S.NO	Name	Roll no.	Sign
1	Archita Negi	241032023	Archita
2	Prachi Jain	241030062	Prachi Jain
3	Danshita Shukla	241030329	Danshita
4	Rachit Kakkar	241030232	Rachit
5	Aditya Saxena	241030271	VM Aditya
6	Gus Gautam	241030066	Gus
7	Jatin Makkar	241030447	Jatin
8	SHREYA	241030173	Shreya
9	Karunesh Sen	241030163	Karunesh
10	AMBAR DUBEY	241030052	Ambar
11	Tushar Singh	241030351	Tushar
12	Ashika Gulathi	241030189	Ashika
13	Ritvik	241030087	Ritvik
14	Kamal Kaur	241030075	Kamal Kaur
15	Parth Pandey	241030216	Parth
16	Naman	241030037	Naman
17	Jaspreet	241030275	Jaspreet
18	Deepika	241030016	Deepika
19	Bhavna	241030158	Bhavna
20	Tejashwar	241030111	Tejashwar
21	Yash	241030256	Yash
22	Prabhat	241030035	Prabhat
23	Kaushik	241030038	Kaushik
24	Ish Sachan	241030055	Ish
25	Lakshay	241030254	Lakshay
26	Kavish Bansal	241030039	Kavish Bansal
27	Naman Khodelmal	241033033	Naman
28	Visham	241030121	Visham
29	Vedant Chaudhary	241030088	Vedant
30	Rohit Singh Rappita	241030167	Rohit
31	Aanchal Verma	241030179	Aanchal
32	Aryan	241030219	Aryan
33	Shravani	241030012	Shravani
34	Prachi Thakur	241030362	Prachi
35	Kumarika Grewal	241030280	Kumarika
36	Yogee	241030282	Yogee
37	Shivansh	241030301	Shivansh
38	Shivam	241030072	Shivam
39	KARTIKEY Bhardwaj	241030221	Kartikey
40			
41			