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**“BE EDUCATED, BE ORGANISED AND BE AGITATED.”
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50°C-Ready AC From IIT Delhi, Optimist Targets India's Heatwave Reality

April 29, 2026 14:37 IST <https://www.mysmartprice.com/gear/ac/ac-news/50c-ready-ac-from-iit-delhi-optimist-targets-indias-heatwave-reality/?amp>



India's air conditioner market is being pushed into a new reality. Summers are no longer defined by peak months alone, and temperatures crossing 45°C are becoming increasingly common across northern and central regions. Against this backdrop, a collaboration between the Indian Institute of Technology Delhi and startup Optimist is attempting to rethink how ACs are built for Indian conditions.

The two have developed a system designed to operate efficiently even at ambient temperatures of up to 50°C. Early pilot deployments indicate that the unit can sustain cooling performance where conventional systems typically begin to lose efficiency or shut down altogether.

What stands out is not just the headline number, but the engineering approach behind it. The system has been tested using advanced HVAC simulations and digital twin modelling to replicate extreme heat

conditions. This allows the design to be validated beyond lab environments, focusing on how it performs in real-world Indian summers rather than ideal scenarios.

This also ties into a larger shift in cooling research. Work coming out of IIT Delhi has explored hybrid air conditioning systems that separate humidity control from temperature reduction, with the potential to cut electricity consumption by up to 30 percent. That becomes significant as India's cooling demand is expected to see sharp growth over the next decade, putting pressure on both household budgets and the power grid.

For Optimist, a relatively new entrant, this positions the company differently from legacy brands that largely adapt global designs for India. The focus here is on building for extreme use cases first.

If scaled effectively, this could influence how future ACs are designed for markets where heat is no longer an exception, but the baseline.

IIT Delhi, NatWest Group to boost industry-academia joint research

April 27, 2026 12:45 pm <https://www.edexlive.com/news/iit-delhi-natwest-group-to-boost-industryacademia-joint-research>

NatWest Group stated that this partnership IIT Delhi helps them strengthen their talent pipeline & deepen engagement with academic and startup ecosystems



IIT Delhi, NatWest Group to boost industry-academia joint research



Global Capability Centre (GCC) NatWest Group on Monday announced a partnership with the Indian Institute of Technology Delhi, through its Foundation for Innovation and Technology Transfer (FITT), to strengthen collaboration between industry and academia through research and pilot projects.

NatWest Group India said the tie-up with IIT Delhi's class academic and research community will explore joint innovation programs, pilot initiatives and industry-led research across Artificial Intelligence, Fintech, cybersecurity and other emerging technologies.

As FITT's first partnership with a global bank, the partnership will support stronger collaboration through joint programs involving researchers, startups and students. The partnership will focus on applying academic research to real business challenges, creating opportunities for NatWest colleagues and students to contribute to new ideas and research to support customers, the firm said in a release.

"Working with leading universities like IIT Delhi helps us to shape the next generation of technology talent and the direction of innovation, strengthens our long-term ability to keep evolving, and supports our work to make banking simpler, safer and more effective for our customers," said Scott Marcar, Chief Information Officer, NatWest Group.

Ruchika Panesar, Country Head, India and Chief Digital and Information Officer, Group Functions, NatWest Group, said that India is a strategic engine for NatWest's technology, innovation and future growth, powered by the depth and quality of talent here.

"Partnerships like this with IIT Delhi help us strengthen our talent pipeline and deepen our engagement with the academic and startup ecosystem, while accelerating innovation in customer experiences, technology, data and AI," Panesar added.

Dr. Nikhil Aggarwal from FITT-IIT, Delhi, said that the collaboration creates a powerful model of industry-academia collaboration where innovation moves beyond labs into scalable solutions, while nurturing talent that is ready to solve complex global challenges.

IIT Delhi CEP's AI Leadership Programme Bridging the AI Impact Gap

April 27, 2026 <https://businessnewsthisweek.com/education/iit-delhi-ceps-ai-leadership-programme-bridging-the-ai-impact-gap/>

95% of Executives Say AI Will Reshape Business. But Are There Enough Leaders to Drive It? CEP, IIT Delhi's Technology Leadership Programme Has the Answer

In an era where Artificial Intelligence (AI) is rapidly transforming industries, a significant leadership gap continues to challenge organisations worldwide. While 95% of executives believe AI will reshape business, only a limited number are successfully driving measurable impact.

Addressing this critical need, the Continuing Education Programme (CEP) at Indian Institute of Technology Delhi has introduced the **Technology Leadership and Innovation with AI programme**, designed to empower professionals to translate AI capabilities into real-world business outcomes.

The programme is structured to balance accessibility with depth, offering a **100% live online learning experience** complemented by a **two-day campus immersion** at IIT Delhi. It emphasises hands-on, practical learning across key areas such as no-code AI tools, digital transformation strategy, and leading organisations through technological change—equipping participants to make informed, high-stakes AI-driven decisions.

Participants will benefit from **practitioner-led sessions by industry experts**, exposure to real-world business challenges, and a **faculty-guided capstone project**. The campus immersion further enhances peer-to-peer learning and strategic collaboration, reflecting dynamic leadership environments.

As AI adoption accelerates across sectors including IT, banking, manufacturing, and consulting, the demand for leaders who can bridge the gap between technology and business strategy continues to grow. This programme is tailored for **emerging technology leaders, business managers, and consultants** aiming to drive AI-led transformation and unlock new growth opportunities.

In today's evolving business landscape, leadership is being redefined by the ability to operationalise AI at scale. Programmes like IIT Delhi CEP's Technology Leadership and Innovation with AI are positioned as timely and relevant offerings in executive education.

IIT Delhi, Pera Uni discuss further collaboration

April 26, 2026 <https://pressreader.com/article/282943866858158>

Discussions were held on strengthening institutional collaboration between the University of Peradeniya and the Indian Institute of Technology (IIT) Delhi at a meeting held this week at Peradeniya.



Prof Shilpi Sharma, IIT Associate Dean Academics (Outreach and New Initiatives) met Prof Devika M De Costa, Faculty of Agriculture, University of Peradeniya.

The discussions were held considering the existing memorandum of understanding between the two institutions and identifying potential areas for collaboration, with particular interest in the fields of Agriculture, Engineering, and Management.

Prof Sharma provided an overview of the academic programmes, research strengths, and international outreach initiatives at IIT Delhi, while University of Peradeniya representatives shared insights into their respective faculties, postgraduate opportunities, and research facilities.

Both parties expressed interest in expanding collaboration through student and staff exchange programmes, joint supervision of postgraduate research, collaborative research projects, and visiting scholar initiatives.

The meeting was attended by University Vice Chancellor Prof Terrence Madhujith, Prof S P K Malaviarachchi, Director, International Relations Office (InRO); Prof B C Jayawardana, Dean, Faculty of Agriculture; Prof B G L T Samaranayake,

Dean, Faculty of Engineering; Prof T M S S K Yatigammana Ekanayake, representing the Dean of the Faculty of Arts; Dr S Maheswaran, representing the Dean of the Faculty of Management; K D R C Rienzie, Lecturer and a postgraduate student at PGIA, jointly supervised by Professors Sharma and De Costa and Thushanika Pakkiyarasa, Project Manager, InRO.

IIT Delhi presents PM10 source analysis proposal to Delhi Environment Minister Manjinder Singh Sirsa

April 23, 2026 <https://www.newdelhitimes.com/iit-delhi-presents-pm10-source-analysis-proposal-to-delhi-environment-minister-manjinder-singh-sirsa/>



Delhi Environment Minister Manjinder Singh Sirsa informed that the Delhi government held a key meeting at the Secretariat where experts from Indian Institute of Technology Delhi presented a proposal on real-time source apportionment of PM10 levels.

The presentation focused on identifying local pollution sources and hotspots through a combination of online and offline sampling techniques. The proposal aims to enable more precise tracking of pollution contributors and was discussed for implementation in collaboration with the Delhi government.

Sirsa noted that the proposal had remained pending for a long time and did not progress under the previous administration. While the Indian Institute of Tropical Meteorology has already been working on PM2.5 monitoring, the government has now decided to move forward with IIT Delhi for enhanced PM10 tracking.

Sirsa said that instructions have been issued to place the proposal before the Cabinet at the earliest for approval and implementation. Under the leadership of Chief Minister Rekha Gupta, the government emphasized its commitment to leveraging advanced technology and institutional expertise to strengthen efforts against air pollution.

Sirsa reiterated that Delhi government will continue to take proactive measures until Delhi's air becomes clean and safe. <https://x.com/mssirsa/status/2046963335514710295/>

IIT Delhi Introduces Online Changemaking Course for Class 10, 12 Students from April 28

April 18, 2026, 13:08 IST <https://www.timesnownews.com/education/iit-delhi-introduces-online-changemaking-course-for-class-10-12-students-from-april-28-article-154106991>

IIT Delhi introduces an online changemaking course for Classes 10 and 12 starting April 28. The programme aims to build problem-solving, leadership, and social impact skills among students nationwide.



IIT Delhi Introduces Online Changemaking Course for Class 10, 12 Students from April 28

The Indian Institute of Technology Delhi has started a multi-phase change-making programme for science stream students from Classes 10 to 12. The programme is designed to help students identify real-world challenges and develop practical solutions under the guidance of experienced mentors. Eligible and interested students can apply through the official website of the programme at metamorphosis.taleofhumankind.org.

The initiative has been jointly launched by the Tale of Humankind Foundation and the Office of Academic Outreach and New Initiatives at IIT Delhi.

The online programme offers a comprehensive curriculum that includes on-campus immersion, fieldwork, and hands-on learning. It focuses on helping students understand social issues and move towards implementing and presenting impactful solutions.

IIT Delhi: Digital Course for School Students

The programme will be carried out in four phases. The first phase is scheduled from April 28 to May 4 and will be conducted online. During this stage, students will explore real-world challenges and start building initial solution ideas through guided sessions on research, design thinking, and the basics of execution.

The second phase, titled “Deep Dive at IIT Delhi”, will be held from May 18 to 22 on the institute’s campus.

As per the official brochure, in this phase, “Around 200 selected participants will be invited to the IIT Delhi to refine their ideas, explore labs, and receive mentorship from faculty and industry experts to shape a clear and feasible solution.”

The third phase of the programme will be conducted from June to November 2026, during which students will focus on implementing their ideas in real-world settings. They will have the opportunity to test their solutions with actual users, refine them based on feedback, and work towards achieving measurable impact over time.

The programme will conclude with the fourth phase in December 2026. In this final stage, the top 20 students will be recognised for their execution and real-world impact and will present their projects along with their overall journey.

For more details, students are advised to visit the official website regularly.

How an IIT Delhi Foundation is bankrolling technology development for India’s national security

April 17, 2026 / 12:48 IST <https://www.moneycontrol.com/news/business/how-an-iit-delhi-foundation-is-bankrolling-technology-development-for-india-s-national-security-13891691.html>

IIT Delhi is currently one of the largest academic investors in India, with a portfolio of over 200 deep technology companies. The market value of these investments run into a few hundred crore rupees, say market participants.

The central government’s vision to enhance home-grown defence, aerospace and security-related capabilities is receiving a boost from India’s elite academic institutions, led by IIT Delhi, which are investing heavily on such start-ups.



Currently, there are hundreds of small and medium scale startups which are focusing on such technologies of national security importance.

However, these firms face major challenges in obtaining regular channels of funding, like angel investors and private equity, since such investors normally invest only after proof of concept (POC) is developed and patents are secured.

Research and Development (R&D) costs are very high initially and only investors backed by long-term social vision like government funds and universities can bankroll such small startups. But market experts say, once these companies take off, they can be commercially very successful.

IIT Delhi is one of the largest academic investors in India and has a portfolio of 200 deep technology companies whose combined market value runs into hundreds of crores, say market participants.

Foundation for Innovation and Technology Transfer

These investments are made through the Foundation for Innovation and Technology Transfer (FITT): the start-up incubator. The institution works in collaboration with various government bodies and leading companies to identify and nurture deep tech startups. Most of these investments are seed investments range from Rs 50 lakh to a few crores.

For instance, IIT Delhi is currently backing Bravecore, a company that is developing cable-based terrestrial surveillance systems. The institute has also invested in Andromeda Maritime Solutions, a firm involved in developing marine autonomous robots.

These investments are also proving successful in commercial terms as the institute has successfully exited over a dozen firms, making tidy profits. For instance, IIT Delhi invested in BotLab Dynamics, an indigenous drone swarm technology maker, where IIT Delhi recently exited with more than 1600 percent return. Currently, the institute is backing over 30 startups from the deep technology sector that would cater to national security.

“FITT, IIT Delhi, has built a strong deep-tech innovation and commercialisation ecosystem, working at the intersection of research, entrepreneurship, industry, and capital. We have collaborated with companies like Boeing, to focus on enabling advanced technology innovation, aerospace-focused startup gain access to real-

world problem statements, technical mentorship, and potential deployment pathways," said a spokesperson of IIT Delhi in response to Moneycontrol's queries.

To be sure, other IITs are also supporting some companies related to defence technologies. However, none of them are focusing heavily on it. Industry experts say most IITs are currently focusing on investing in clean energy technologies and Artificial Intelligence (AI) companies.

Rising prominence of drones and need for boutique investors

The importance of drones for defence capabilities has increased significantly for India, following Operation Sindoor in May 2024 when Pakistan sent swarms of drones into the Indian airspace. Several global conflicts, including the Ukraine-Russia war and Iran-US war, have shown that drones are the future of modern warfare.

"Despite R&D-intensive early phases, deep-tech drone companies have the potential to evolve into high-margin businesses by leveraging software-defined, AI-driven platforms that scale across large, recurring government contracts," said Nagendran Kandasamy, chief executive officer, Zulu Defence Systems.

When leading universities like IIT Delhi back such startups, it adds more gravitas to the sector and it would bring in larger institutional investors.

"These investments show that the sector is no longer a speculative space, it's a 'need of the hour operational necessity playing out in real time. The global conflicts have made it clear that drone warfare is persistent, low-cost, and scalable. Countering them isn't a single-product problem; it demands deep-tech across RF engineering, AI/ML, signal intelligence, and real-time systems integration," said Amardeep Singh, Founder, Armory.

India-Austria ties get boost as Modi, Stocker chart future in technology, mobility and global peace

April 16, 2026 13:14 IST <https://www.indiatvnews.com/amp/news/india/india-austria-ties-get-boost-as-modi-stocker-chart-future-in-technology-mobility-and-global-peace-2026-04-16-1037739>

In a move aimed at strengthening people-to-people ties, PM Modi said the two sides also announced the launch of the India–Austria Working Holiday Program, designed to encourage youth exchange and cultural engagement.



IMAGE SOURCE : VIDEO GRAB/ANI

PM Modi pointed to a newly signed memorandum of understanding between Indian Institute of Technology [Delhi](#) and Montan University Leoben as a model for knowledge-driven partnerships that translate innovation into action.

In a significant step toward deepening bilateral relations, Narendra Modi and Austrian Federal Chancellor Christian Stocker unveiled an ambitious roadmap to expand cooperation across critical sectors, signaling a new phase in India–Austria ties.

Addressing a joint press conference in Delhi, PM Modi emphasised that Chancellor Stocker’s visit marks a turning point in economic engagement between the two nations. He highlighted that Austria’s technological expertise, when paired with India’s scale and rapid growth, could create resilient and globally competitive supply chains.

The leaders underscored their commitment to strengthening collaboration in emerging and high-impact sectors, including semiconductors, quantum technologies, biotechnology, and defense. PM Modi pointed to a newly signed memorandum of understanding between Indian Institute of Technology Delhi and Montan University Leoben as a model for knowledge-driven partnerships that translate innovation into action.

India–Austria Working Holiday Program announced

Mobility and workforce exchange also featured prominently in the discussions. Building on the 2023 migration and mobility agreement, both countries agreed to expand opportunities in the nursing sector, facilitating skilled workforce movement while addressing global healthcare demands. In a move aimed at strengthening people-to-people ties, PM Modi said the two sides also announced the launch of the India–Austria Working Holiday Program, designed to encourage youth exchange and cultural engagement.



Beyond economic and technological cooperation, the leaders presented a unified stance on pressing global challenges. Both nations reaffirmed that military conflict is not a viable solution to international disputes, expressing support for lasting peace in regions such as Ukraine and West Asia. They also called for reforms in global institutions to better respond to evolving geopolitical realities.

India–Austria vow joint fight against terrorism

PM Modi said a strong message on counterterrorism emerged from the talks, with both sides pledging to intensify efforts to eliminate terrorism at its roots. The visit is being seen as a strategic effort to elevate India–Austria relations from traditional cooperation to a forward-looking partnership centered on innovation, sustainability, and global stability.

India's First "Student AI Debater" Showcased at IIT Delhi by India Debating League

April 15, 2026 <https://businessnewsthisweek.com/technology/indias-first-student-ai-debater-showcased-at-iit-delhi-by-india-debating-league/>

The Indian Debating League (IDL) launched *AugLi.AI—Debate with AI* at Dogra Hall, IIT Delhi, through a live student demonstration featuring a 1-on-1 debate with AI on the motion: *"This House Believes That AI Is Likely to Be a Better World Leader Than Human Beings."*

AugLi.AI is positioned as India's first student-focused AI debater, enabling learners to engage in real-time debates with AI or peers while receiving structured feedback on reasoning, rebuttal strength, clarity of thought, and overall argument quality. The platform is designed to strengthen critical thinking skills in an era where access to information is rapidly expanding through artificial intelligence.

Speaking at the launch, **Anjali Tiwary, Founder & CEO, Indian Debating League**, said,

"AugLi.AI has been built on a simple belief: as access to intelligence becomes more widespread, the real edge will lie in how well students can question, structure, and defend their thinking—not just access information. We see this as a way to make structured thinking more accessible, consistent, and scalable for students across contexts."

Over the past two to three years, the Indian Debating League has conducted more than 150 tournaments and engaged over 100,000 students across India. According to the organisation, this extensive experience revealed a growing gap between the skills required in a rapidly evolving AI-driven world and those developed through traditional, episodic debate formats.

AugLi.AI aims to bridge this gap by shifting debate from a tournament-based activity to a continuous, daily practice model. The platform allows students to simulate arguments, challenge AI-driven opponents, and receive instant analytical feedback—turning debate into an always-accessible learning experience.

Highlighting the vision behind the platform, **Kamal Kashyap, co-founder of AugLi.AI**, said,

“For the first time, technology enables debate at scale. Much like Chess.com transformed chess into a global daily habit, we now have the opportunity to build ‘Debate for All—AugLi.AI’ for the world.”

He further noted that demand for structured debate and reasoning tools is already visible in global education markets, particularly in the United States, where debate is deeply embedded in academic systems. With AI, the platform aims to democratize access to high-quality practice through simulated opponents and real-time feedback systems.

IDL emphasized that AugLi.AI is designed to complement, not replace, traditional debate formats. Instead, it extends learning beyond classrooms and competitions by offering continuous skill-building opportunities.

The launch builds on IDL’s broader ecosystem, which currently spans over 100,000 students across 120+ cities, supported by tournaments, AI-enabled feedback tools, and structured communication training platforms.

With AugLi.AI, the Indian Debating League aims to position structured thinking and reasoning as a daily cognitive practice, preparing students for a future where analytical clarity and articulation are critical skills.

AIIMS brings IIT Delhi, MIT experts together to drive doctor-engineer collab in healthcare

April 09, 2026 IST 10:15 PM <https://www.tribuneindia.com/news/delhi/aiims-brings-iit-delhi-mit-experts-together-to-drive-doctor-engineer-collab-in-healthcare/>

In a rare move to bridge medicine and technology, AIIMS-Delhi has brought together engineers and clinicians from leading global institutions, including IIT-Delhi and US-based MIT, to jointly develop solutions for healthcare challenges.

The collaboration, which also includes The Arctic University of Norway, with participation from the University of Oslo, University of Southampton and SINTEF, reflects a growing focus on combining clinical insight with engineering innovation to improve patient care and diagnosis.

“The aim of organising this workshop is to bring engineers and doctors together and create engineering innovations that would actually help the doctors,” said Dr Vivek Tandon from AIIMS’s Department of Neurosurgery.



He emphasised clinical needs must guide technological design. “If I want a specific camera to perform a neurosurgery, then it should be a doctor who sits with an engineer to explain what sort of need the camera must fulfil,” Dr Tandon said. He added that such an approach allows both sides to identify and build targeted healthcare technologies.

The workshop is being organised with IIT Delhi’s DS Mehta as chairperson, while Dr Balpreet Singh Ahluwalia from UiT The Arctic University of Norway is also co-chairing the programme. From MIT, Prof Peter So, an expert in biological engineering and multiphoton microscopy, is among the key international representatives.

The discussions opened with a fundamental concern in clinical care. “The most important question that patients ask is not what disease they have... they ask how long they are going to survive,” said Dr Dipak Sapkota, a researcher from the University of Oslo, highlighting a gap that continues to challenge modern medicine.

Dr Sapkota described the difficulty in managing oral leukoplakia, a condition that can turn cancerous but remains unpredictable. Patients often undergo repeated biopsies, creating both clinical uncertainty and burden. “We don’t know what to do; at times in oral cancer, we just wait until the patient dies,” he said, highlighting the absence of reliable predictive tools.

He argued that relying on a single technology would not solve the problem. Instead, combining clinical data with optical spectral properties, artificial intelligence-based image analysis, and emerging approaches could help identify high-risk cases. “We can mix AI along with new approaches like single-cell and spatial omics in cancer, which could help us analyse which patient is at higher risk,” he said.

Similar gaps are being addressed through AI in dermatology. Dr Somesh Gupta from AIIMS’s dermatology department said skin diseases generate the highest number of health-related queries globally, yet nearly three billion people lack access to specialists. “There are countries with only two or three specialists,” he said.

He pointed out that most datasets used to train AI models are skewed towards lighter skin tones, while a larger share of the global population has darker or Asian skin. His team is working on India-specific models, including collaborations with Google Health, to help frontline healthcare workers identify and triage patients.

AIIMS’s ophthalmology department also presented an AI-based system, ‘MadhuNetraAI’, to detect and grade diabetic retinopathy. The model can be deployed in community settings and operated by trained healthcare workers. By grading disease severity, it helps determine which patients need urgent referral and which can

wait, reducing unnecessary hospital visits. The system has shown a sensitivity of 98 per cent and specificity of 96 per cent in testing.

Discussions also touched on public health, where experts noted that increasing warning labels on tobacco products has had limited impact, while marketing continues to influence behaviour in subtler ways.

The discussions are part of the 'Photonics 4 Clinics' workshop being held at AIIMS, which will conclude on Friday evening, focusing on the use of light-based technologies combined with AI-powered systems to detect changes in biological tissues and improve clinical decision-making.

Researchers Reduce Vendor Lock-In and Limit Costs in Quantum Machine Learning

April 9, 2026 <https://quantumzeitgeist.com/quantum-machine-learning-vendor-lock-in/>



Researchers at the Indian Institute of Technology Delhi have developed a new framework addressing a significant impediment to advancement in [quantum machine learning](#): vendor lock-in. Poornima Kumaresan and colleagues present a framework-agnostic quantum neural network architecture that allows models to function across diverse software platforms and hardware backends. The architecture tackles the existing fragmentation within quantum machine learning software, where models constructed using one system are frequently incompatible with others, hindering reproducibility and restricting access to varied quantum hardware. By introducing a unified [computational graph](#) and a hardware abstraction layer supporting

platforms such as [IBM Quantum](#) and [Amazon Braket](#), the team demonstrate [training performance](#) comparable to native implementations on standard classification tasks, paving the way for more portable and collaborative quantum machine learning research.

Framework-agnostic quantum machine learning achieves hardware portability with minimal performance overhead

Training time parity, previously unattainable across quantum platforms, is now achieved with only an 8% overhead compared to native implementations. This breakthrough addresses a key limitation in quantum machine learning, as models designed for one software framework, such as [TensorFlow Quantum](#), were previously incompatible with others, necessitating complete re-implementation for deployment on different hardware. This lack of interoperability significantly increased development costs and slowed the dissemination of research findings. The new framework-agnostic architecture utilises a unified computational graph, which represents the quantum circuit as a series of interconnected operations, and a hardware abstraction layer, which translates these operations into instructions compatible with the underlying quantum hardware. This decoupling of software from hardware enables seamless operation across platforms including IBM Quantum and Amazon Braket, eliminating vendor lock-in and supporting greater collaboration. The computational graph allows for optimisation and manipulation of the quantum circuit independent of the specific hardware, while the abstraction layer handles the complexities of each platform's unique instruction set and qubit connectivity.

Such interoperability is crucial for fostering a more open and productive quantum computing landscape. The framework's performance was validated using three established datasets: Iris, Wine, and MNIST-4. The Iris dataset, containing 150 samples with 4 features, is a common benchmark for classification algorithms. The Wine dataset, with 178 samples and 13 features, provides a slightly more complex challenge. MNIST-4, a reduced version of the widely used MNIST handwritten digit dataset, consists of images representing four digits, simplifying the problem while retaining representative characteristics. Achieving identical classification accuracy to native implementations across all tests demonstrates the framework's robustness and reliability. Furthermore, the system successfully executed circuits on the IBM Brisbane processor, utilising 127 superconducting qubits to demonstrate hardware compatibility. Superconducting qubits, based on the principles of superconductivity, are a leading technology in the development of quantum computers, and the ability to run circuits on a processor of this scale is a significant achievement.

By supporting TensorFlow, PyTorch, and JAX simultaneously, scientists can now readily share and evaluate quantum work utilising varied hardware configurations; this facilitates broader participation and accelerates the pace of discovery. These frameworks are among the most popular in the broader machine learning

community, ensuring a wider range of researchers can contribute to and benefit from the framework. Three pluggable data encoding strategies, amplitude, angle, and instantaneous quantum polynomial encoding, are integrated into the architecture, all verified to be compatible with all supported backends. Data encoding is a critical step in quantum machine learning, as classical data must be transformed into a quantum state that can be processed by the quantum computer. Each encoding strategy has its own strengths and weaknesses, and the ability to switch between them allows researchers to optimise performance for different datasets and hardware. Benchmarks utilising relatively small datasets and circuit depths revealed an 8% overhead in training time; however, scaling to more complex machine learning problems with millions of parameters may reveal further performance limitations and necessitate optimisation. This initial testing demonstrates potential for wider adoption and collaborative development within the quantum machine learning community, promising a more accessible future for quantum computation. The 8% overhead represents a trade-off between portability and performance, and future work will focus on minimising this overhead through algorithmic and hardware optimisations.

Overcoming hardware and software fragmentation to enable reproducible quantum machine learning

Establishing a unified system for quantum machine learning promises to unlock wider access and accelerate research, but the authors acknowledge limitations in demonstrating scalability. Their benchmarks remain confined to relatively simple problems, and the true test will be applying this framework to the complex, high-dimensional data encountered in real-world applications. The computational complexity of quantum algorithms often increases rapidly with the size of the input data, and scaling to larger datasets requires significant advances in both hardware and software. Despite these current limitations with complex datasets, this represents a vital step towards a more open and collaborative quantum machine learning ecosystem. The ability to share and reproduce results is essential for building trust and accelerating progress in any scientific field, and this framework provides a crucial foundation for achieving this in quantum machine learning.

Vendor lock-in has demonstrably hampered progress in quantum computing, but by creating a unified framework compatible with multiple hardware providers and software platforms, scientists can more easily share and reproduce results. This new architecture establishes a unified approach to [quantum neural networks](#), decoupling software from specific quantum hardware. Achieving performance comparable to native implementations, despite the added abstraction, demonstrates the viability of this framework-agnostic design; this therefore shifts the focus from compatibility concerns to core algorithm development. The abstraction layer introduces a degree of overhead, but the benefits of portability and collaboration outweigh this cost. This opens questions regarding optimal strategies for scaling these portable models to

more complex, real-world datasets and larger quantum processors, paving the way for future research into more efficient quantum algorithms. Investigating novel quantum algorithms and optimising existing ones for this framework will be crucial for realising the full potential of portable quantum machine learning. Furthermore, exploring the integration of this framework with other quantum computing tools and libraries will further enhance its usability and impact.

The researchers developed a framework-agnostic quantum neural network architecture that allows models to run on multiple quantum computing platforms and software frameworks. This addresses a significant problem of fragmentation within the field, where models created for one system cannot easily be used on another. By supporting integration with platforms such as IBM Quantum, Amazon Braket, and software like TensorFlow and PyTorch, the framework facilitates reproducibility and collaboration. The architecture utilises three data encoding strategies and an export module leveraging ONNX metadata to enable circuit translation, and the team intends to focus on scaling these portable models to more complex datasets.

JSS wins honour at IIT Delhi Techradiance

April 8, 2026 <https://pressreader.com/article/281582362189200>

Jammu Sanskriti School, Jammu, earned national recognition at the Techradiance Championship (10th Edition) held at IIT Delhi, winning the “Outstanding Contribution to Skill-based Learning” award.

Twelve students, accompanied by teachers Radhika Handa and Anupama Sharma, participated in the championship organised in association with the Entrepreneurship Development Cell of IIT Delhi. The event served as a national platform for students to showcase innovation in robotics and emerging technologies.

The team demonstrated strong technical skills and teamwork across multiple competitions. They also developed an innovative floorcleaning robotic model under the innovation challenge category, highlighting practical application of classroom learning.

The school’s consistent focus on experiential and skill-oriented education was recognised through the award, reflecting its emphasis on preparing students with future-ready competencies.

Principal-cum Vice Chairperson Rohini Aima congratulated the students and faculty, appreciating their dedication and performance. She noted that such platforms play a key role in nurturing confident, skilled and innovative learners.

The achievement marks another milestone for the institution, reinforcing its commitment to holistic education and continuous innovation.



Want to learn AI and quantum? IIT Delhi opens certification courses for graduates

April 7, 2026 13:21 IST <https://www.indiatoday.in/education-today/news/story/iit-delhi-ai-leadership-and-quantum-courses-2026-fees-duration-eligibility-and-dates-2892633-2026-04-07>

IIT Delhi has opened two online professional programmes for learners who want to build skills in AI leadership, and quantum. One focusses on quantum in machine learning systems, while the other is built around technology and AI leadership.



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IIT Delhi is offering two new online programmes for professionals and graduates who want to move deeper into artificial intelligence, quantum technology and leadership.

One course brings together quantum and AI systems, while the other looks at technology and AI leadership from a business and management angle.

Both courses are offered through IIT Delhi's CEP-QIP platform and are structured as online programmes. The programme's focus is not just on theory, but on helping learners apply new technology in practical settings.

EXECUTIVE PROGRAMME FOR QUANTUM IN ML & AI SYSTEMS

This six-month programme is designed as an online executive course and begins on May 2, 2026, ending on October 31, 2026.

The programme fee is Rs 1,30,000 plus 18 per cent GST, and IIT Delhi says participants will receive an e-certificate from CEP, IIT Delhi.

The eligibility list is broad. Candidates with B.Tech/BE, B.Sc in all streams, BCA/MCA, and BA/MA Mathematics can apply. The course is aimed at learners who want to understand how quantum ideas connect with machine learning and AI systems.

ADVANCE PROGRAMME IN TECHNOLOGY AND AI LEADERSHIP

The second programme is the Advance Programme in Technology and AI Leadership (Batch 3). It runs for seven months and is delivered online.

The programme starts on July 3, 2026, and the application deadline is June 16, 2026.

Its fee is Rs 1,74,000 plus 18 per cent GST. The programme is run with Emeritus as the service provider, and “Managing AI and ML for Business” is among the modules, showing a strong focus on practical use rather than only theory.

FEE AND ELIGIBILITY

Quantum in ML & AI Systems

- Fee: Rs 1,30,000 + 18% GST.
- Duration: 6 months.
- Eligibility: B.Tech/BE, B.Sc, BCA/MCA, BA/MA Mathematics.
- Application deadline: 15th April 2026
- Mode: Online

Technology and AI Leadership

- Fee: Rs 1,74,000 + 18% GST.
- Duration: 7 months.
- Eligibility: Graduates (10+2+3) in any discipline from a recognised university.
- Application deadline: 17th June 2026
- Mode: Online

WHY THESE COURSES STAND OUT

These programmes stand out because they bring two fast-growing fields, quantum and AI leadership, into formats that are easier to access for working people and graduates.

The online model, clear timelines and practical course modules make them more flexible than a full-time degree.

The broad eligibility also means the courses are not limited to one narrow stream, which makes them appealing to a wider group of learners.

IIT Delhi opens MTech 2026-27 admissions with self-sponsored seats; check details here

April 4, 2026, 01.40 PM IST <https://timesofindia.indiatimes.com/education/news/iit-delhi-opens-mtech-2026-27-admissions-with-self-sponsored-seats-check-details-here/articleshow/130015492.cms>



IIT Delhi MTech admissions 2026: The Indian Institute of Technology Delhi (IIT Delhi) has unveiled new measures to expand access to its M. Tech programmes for national candidates in the academic year 2026-27. The Institute will offer up to 30 per cent supernumerary seats under the self-sponsored full-time category for students with a valid GATE score. Candidates admitted under this category will not be eligible for an Institute Assistantship at the time of admission. Conversion from self-sponsored status to Institute Assistantship will be governed by prevailing norms of the Institute.

IIT Delhi has also announced that currently registered students of Centrally Funded Technical Institutions (CFTIs) who are likely to graduate with a CGPA of 8.0 or higher on a 10-point scale may apply for admission to M. Tech programmes without a GATE score. These measures aim to widen access to postgraduate technical education and encourage participation from high-performing students across India.

Details on application process and deadlines

The admission portal for national candidates applying to M. Tech, PhD, and other postgraduate programmes is now open. Applicants are required to submit their online applications and pay the requisite

fee by April 11, 2026, 4:00 p.m. The online application process commenced on March 21, 2026, at 12:00 noon.

Event	Date
Submission of online application commences	March 21, 2026, 12:00 noon
Last date for submission of online application and application fee	April 11, 2026, 04:00 p.m.
Conduct of written tests / interviews	May 13 – June 15, 2026
Orientation for new PG students	July 18
Registration for new PG students	July 18 – July 19, 2026
Commencement of classes	July 23, 2026

Written tests and interviews for shortlisted candidates are scheduled to take place between May 13 and June 15, 2026. Orientation for new postgraduate students is set for July 18, 2026, followed by registration from July 18 to July 19. Classes for the academic session will commence on July 23, 2026.

- [Direct link to read and download the information brochure](#)
- [Direct link to apply online](#)

Eligibility and further information

Applicants seeking admission under the self-sponsored category must have a valid GATE score. Students from CFTIs with a CGPA of 8.0 or above are exempt from the GATE requirement. Candidates admitted under self-sponsored seats will initially not receive financial support from the Institute, though conversion to an Institute Assistantship will be possible according to institutional regulations.

For detailed information regarding eligibility criteria, selection procedures, and conditions of conversion to Institute Assistantship, applicants are directed to consult the official IIT Delhi Information Brochure available online. The brochure provides comprehensive guidance on application procedures and programme-specific requirements.

These initiatives reflect IIT Delhi's efforts to expand postgraduate education opportunities while maintaining academic standards and providing pathways for high-performing students to access its M. Tech programmes.

‘Many IIT Delhi depts don’t have single SC/ST faculty... undue scrutiny’

April 4 2026 <https://www.pressreader.com/india/the-indian-express/20260404/281663966560944>

“SEVERE UNDER-REPRESENTATION of SC/ST faculty,” “pessimism” toward candidates from these communities, lack of representation in decision-making bodies, inadequate academic support — these are among the issues that SC/ST faculty and students of Indian Institute of Technology (IIT) Delhi flagged before the Parliamentary Committee on the Welfare of Scheduled Castes and Scheduled Tribes in February.

Nearly a year after the Committee's last visit to the IIT in April as part of a broader review of the implementation of Constitutional safeguards for marginalised communities by premier institutions, the submissions — made in the form of a memorandum — suggest that structural gaps flagged earlier persist, from hiring and representation to academic support and campus climate. Similar concerns were raised last year too. The submissions come against the backdrop of certain institutional measures taken by the IIT. Last year, it had introduced its first special admission drive for PHD candidates from SC and ST communities.

On February 25, in a sitting of the Parliamentary Committee, the members heard oral evidence from the Ministry of Education and IIT Delhi on the implementation of reservation policy in faculty and non-faculty positions. It is learnt that senior administrative and faculty members of the IIT, along with students, attended this sitting.

The Indian Express had last year reported that data shared with the Committee shows that only 3.1% of IIT Delhi's 642 faculty members belong to SC and 1.2% to ST categories — far below the mandated quotas of 15% and 7.5%, respectively. The shortfall translates to 76 SC and 40 ST faculty positions. In PHD programmes, the admission for SC students rose to 9.69% in 2024-25 from 8.88% in 2015-16, with ST student admissions surging to 3.28% in 2024-25 from 0.97% in 2015-16.

The memorandum lays out what it describes as “systemic exclusion across institutional processes”. “Many departments do not have a single SC/ST faculty,” it says.

The absence of representation extends to leadership, they allege. “So far, no SC/ST faculty has been offered any key administrative position at the level of Dean or Associate Dean,” the memorandum notes, adding that no SC/ST faculty member has been part of the institute’s Board of Governors, the IIT’S apex decision-making body.

Among the most serious allegations is the treatment of caste-related research. The memorandum flags “undue scrutiny” and “direct or indirect discouragement” for work focused on caste discrimination and related themes. The faculty describe hostile review processes, alleging that ethics committees sometimes “make a mockery of the research objectives” and use “undignified language” about both the subject and the researcher.

Concerns over accountability mechanisms also feature prominently. “The grievance redressal mechanism in IIT Delhi remains vague and ineffective,” it states. It also points to what it describes as “intersectional invisibility”, particularly for women navigating both caste- and gender-based challenges. “The SC/ST women faculty face a double burden of caste and gender,” it noted.

A parallel memorandum submitted by students echoes many of these concerns, while adding focus on academic and financial barriers. Students cite “inadequate funding for promoting research activities, fellowships, and international academic exposure and collaboration”, along with a “lack of academic support from the faculties to SC/ST students”.

Further, they raise concerns about mental health services, calling for trained professionals who understand the psychological effects of discrimination and social exclusion. On placements, they urge the institute to establish fast-track mechanisms to address caste-based discrimination during internships and hiring. The Indian Express reached out to IIT Delhi Press Relations Officer Shiv Yadav and Director Rangan Banerjee but received no response.

Khulaste also did not respond calls or messages.

Bitget Brings Blockchain4Youth to IIT Delhi as Demand for Web3 Education Surges

April 02, 2026 16:04:16 <https://www.ptinews.com/press-release/bitget-brings-blockchain4youth-to-iit-delhi-as-demand-for-web3-education-surges/3523542>

Bitget, the world's largest Universal Exchange (UEX), partnered with the Indian Institute of Technology Delhi (IIT Delhi) to host a blockchain seminar and workshop under its Blockchain4Youth programme. The campus

session brought together more than 280 students for a workshop focused on blockchain fundamentals, decentralized systems, and emerging opportunities in Web3.



Bitget Brings Blockchain4Youth to IIT Delhi as Demand for Web3 Education Surges

Held on March 27, the event drew participants from leading institutions including the Indian Institute of Information Technology Delhi (IIIT Delhi), Netaji Subhas University of Technology (NSUT), University of Delhi (DU) and other institutions across the capital. More than 650 registrations were recorded for approximately 300 seats, highlighting strong demand for structured blockchain education among Indian students.

Blockchain4Youth is Bitget's global initiative dedicated to expanding blockchain literacy through campus engagements, workshops, and long-term support for young builders entering the digital asset ecosystem. India remains one of the most active regions for technical talent and early-stage blockchain participation, making university engagement an important part of long-term ecosystem development.

"India continues to stand out for the depth of technical talent entering blockchain," said Gracy Chen, CEO of Bitget. "What stood out at IIT Delhi was the curiosity students approached the discussions with. Blockchain4Youth is designed to create early access to knowledge and help young builders understand where decentralized technologies are moving beyond theory into practical infrastructure."

Speakers at the event underlined the long-term importance of sustained ecosystem investment in Indian talent. Vinayak Kalra, founder of KaiFoundry, noted that the level of curiosity and ambition among students reflected how quickly India's next generation of blockchain talent is emerging, adding that initiatives of this kind are important if leading Web3 organizations want to invest meaningfully in the country's talent pool. The event also drew strong attention from ecosystem contributors present at the session. Sahil Thakur,

founder of BlockseBlock, pointed to the turnout as evidence that blockchain interest on campuses is increasingly driven by long-term curiosity rather than short-term market cycles.

Bitget's Blockchain4Youth programme continues to expand through partnerships with universities and educational communities worldwide, with a focus on expanding blockchain access and supporting the next generation of developers and entrepreneurs.

About Bitget

Bitget is the world's largest [Universal Exchange \(UEX\)](#), serving over 125 million users and offering access to over 2M crypto tokens, 100+ tokenized stocks, ETFs, commodities, FX, and precious metals such as gold. The ecosystem is committed to helping users trade smarter with its AI agent, which co-pilots trade execution. Bitget is driving crypto adoption through strategic partnerships with [LALIGA](#) and [MotoGP™](#). Aligned with its global impact strategy, Bitget has joined hands with [UNICEF](#) to support blockchain education for 1.1 million people by 2027. Bitget currently leads in the tokenized TradFi market, providing the industry's lowest fees and highest liquidity across 150 regions worldwide.

CSR: M3M Foundation Connects 2,500 Farmers, 1,000 Visitors at Kisan Kumbh 2026, IIT Delhi

April 2, 2026 <https://indiacsr.in/m3m-foundation-connects-2500-farmers-1000-visitors-kisan-kumbh-iit-delhi/>



Over 2,500 farmers and 1,000+ visitors participated at Kisan Kumbh 2026, where M3M Foundation enabled grassroots enterprises from regions like Ladakh and Spiti to showcase value-added products.

M3M Foundation's participation at Kisan Kumbh 2026 has significantly strengthened market access and income opportunities for grassroots farmers by directly connecting them with consumers and larger markets. By enabling rural enterprises to showcase and sell value-added products, the initiative is enhancing visibility, promoting sustainable livelihoods, and empowering women farmers across remote regions. This platform-driven approach highlights how direct market linkages can bridge the gap between producers and consumers, driving inclusive growth and boosting the rural economy.

The **M3M Foundation's** stalls featured enterprises from regions including Laddakh, Spiti, and other rural geographies, with active participation from teams from Spiti and Nubra Valley, along with Sarvoday products, enabling beneficiaries to showcase, market, and sell their products like cold pressed mustard oil, hand grind spices, Sea buckthorn juice, pulp, berries, roasted barley, products made from yak wool. These products were widely appreciated by visitors for their quality and authenticity. The stalls attracted over 2,500 visitors, providing significant exposure and direct market access to grassroots producers.

The participation resulted in strengthened market linkages, increased visibility for rural enterprises, and direct customer engagement, reinforcing the importance of such platforms in bridging the gap between producers and consumers.





In a proud moment, M3M Foundation was appreciated on stage by Shyam Singh Rana, Hon'ble Agriculture Minister of Haryana, in the presence of General V. K. Singh, Hon'ble Governor of Mizoram. The event was also graced by Nitin Gadkariji, Hon'ble Minister of Road Transport and Highways, Government of India, as the Chief Guest.

Dr. Aishwarya Mahajan, Managing Trustee and President, M3M Foundation, said, “M3M Foundation is currently working across 8 states with over 10,000 farmers, including in remote regions such as Laddakh and Spiti. In areas like Nubra Valley, we have enabled food processing systems, ensuring that farmers are not only engaged in cultivation but also in value addition. More than 5,000 women farmers are actively involved in both farming and processing, strengthening rural livelihoods.”

The Foundation's initiatives continue to focus on enabling market access, promoting value addition, and strengthening women-led agricultural enterprises across diverse geographies.

Dr. Payal Kanodia, Chairperson and Trustee, M3M Foundation, added, “**At M3M Foundation**, our approach is to work closely with farmers, especially women, and strengthen their role as decision-makers in agriculture. We are not only supporting them in cultivation but also enabling value addition, market access, and sustainable practices, so that farming becomes more resilient and profitable. Platforms like Kisan Kumbh help amplify their efforts by connecting them directly with larger markets and opportunities.”

M3M Foundation's participation at Kisan Kumbh 2026 reflects its continued commitment to strengthening grassroots enterprises and creating meaningful, market-driven opportunities for farmers across India.

Tripura signs MoU with IIT Delhi to train youths about AI and Machine Learning

Agartala, Apr 1 (UNI) In a major step to enhance the workforce for the industrial sector, Department of Skill Development has introduced specialised training programs in advanced technologies for young individuals to expedite the advancement of Tripura's digital economy. A Memorandum of Understanding (MoU) was established among the Department of Skill Development, I Hub Foundation for Robotics (IHFC), and Technology Innovation Hub of Indian Institute of Technology, Delhi (IIT Delhi).

As part of this initiative, 148 trainees are presently engaged in training at NIT Agartala and the National Institute of Electronics and Information Technology (NIELIT), Agartala.

The focus of the curriculum includes three batches on Artificial Intelligence (AI) and one batch on Artificial Intelligence & Machine Learning (AI & ML), in line with current digital sector needs.

The training program employs a blended learning methodology that integrates classroom instruction, hands-on laboratory training, and online lectures presented by professors from IIT Delhi. Expert instructors from IIT Delhi are also providing sessions to impart both theoretical insights and practical skills.

To facilitate a seamless experience, Department of Skill Development has organised accommodations for trainees in Durjoynagar near Agartala, along with transport services to and from the training venues.

Besides awarding certificates, the top performers will be eligible for internships at IIT Delhi, said Director Skill Development Pradeep K.