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BYTE STREAM



COMPUTER SCIENCE AND ENGINEERING
INDIAN INSTITUTE OF TECHNOLOGY (ISM)
DHANBAD

MONTHLY **NEWSLETTER**

An Insight into the
Department of Computer
Science and Engineering,
IIT (ISM)



The more you know, the
more you realize you
know nothing.”

— Socrates

Collaboration with VIZJA University, Warsaw, Poland

A formal collaboration has been established between the IIT (ISM) Dhanbad and VIZJA University, Warsaw, Poland, aimed at fostering academic and research cooperation across multiple disciplines. This partnership is designed to promote mutual growth, knowledge exchange, and innovation through joint academic and scientific initiatives.

The collaboration encompasses a range of activities, including joint research projects, faculty and student exchange programs, co-supervision of theses, and the organization of international seminars, workshops, and conferences. Both institutions have agreed to explore collaborative opportunities in emerging research areas such as artificial intelligence, data science, cybersecurity, brain-computer interfaces, and sustainable technology.

Additionally, the partnership emphasizes sharing of research resources, access to specialized laboratories, and the publication of joint research outputs in reputed international journals and conferences. The alliance aims to strengthen global academic engagement, enhance research visibility, and nurture a culture of interdisciplinary learning and collaboration among scholars and students from both universities.

Prof. Sachin Tripathi felicitated with Springer Nature Book Award

In appreciation of his contributions to scholarly publishing and research excellence, Prof. Sachin Tripathi has received the esteemed Springer Nature Book Award. This award was given out during Springer Nature's 2025 India Research Tour, which had the theme 'Celebrating a Century of Research, Innovation, and Open Science Awareness'. Leading academicians, researchers, and policymakers gathered at the event, which was organized by the Ministry of Education and hosted at IIT (ISM) Dhanbad, to emphasize the value of expanding knowledge and promoting global collaboration. Professor Tripathi's accomplishment is evidence of his commitment to groundbreaking research and innovation.



Collaboration with the University of La Rochelle, France

IIT (ISM) Dhanbad has signed an MOU with the University of La Rochelle, France, on September 12, 2025, marking an exciting new phase in international academic partnership. The agreement, signed by Prof. Gérard Blanchard, President of ULR, and Prof. Rajeev Upadhyay, Dean of International Relations and Alumni Affairs at IIT (ISM) Dhanbad, opens doors for students and faculty to engage in meaningful collaboration and knowledge exchange.

The partnership enables semester-long student exchanges and joint research initiatives. Faculty members can participate in collaborative research projects and jointly supervise doctoral candidates, while researchers from both the institutes can gain access to advanced laboratories and specialized facilities. The agreement further supports the development of dual degree and accelerated Master's programmes, enriching academic offerings for students. This transformative partnership was made possible through the instrumental efforts of Prof. Partha Pratim Roy, whose international connections and collaborative vision helped establish strong academic ties between the two institutions.

With a five-year validity period, this strategic partnership reflects IIT (ISM) Dhanbad's commitment to internationalizing its academic programs and fostering genuine cross-cultural learning that will benefit students and faculty for years to come.

ANVESH: Department's First Special Interest Group in AI & ML

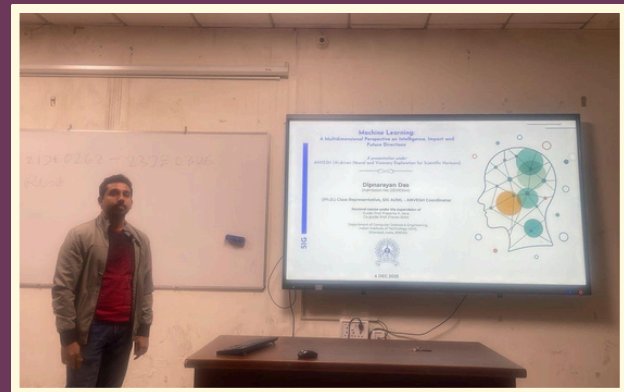
With immense pride, our department launched ANVESH, the first Special Interest Group dedicated to Artificial Intelligence and Machine Learning, bringing together faculty, research scholars, and students with a shared interest in advancing intelligent systems. It is an academic forum specifically formed to bridge the gap between theory and application. ANVESH focuses on foundational learning theory, deep learning, computer vision, NLP, trustworthy and human-centric AI, and emerging scientific and societal applications.

The group conducts weekly hour-long research-oriented sessions featuring a Ph.D. scholar and an M.Tech student presenting a session. These meetings rotate through areas such as computer vision, natural language processing, medical imaging, and remote sensing, and are supported by paper readings, survey discussions, case-based analyses, and hands-on coding and dataset exploration.

Even though ANVESH was just recently formed, it is already developing into a vibrant academic community with the help of the coordination team comprising of Faculty Coordinator, Prof. Partha Pratim Roy and Faculty Deputy Coordinator, Prof. Annavaparuru Chandra Sekhara Rao; Ph.D. Coordinator, Dipnarayan Das and Ph.D. Deputy Coordinator, Kunal Roy; Postgraduate Coordinator, Yash Agarwal and Undergraduate Coordinator, Pratham Aggarwal. Their guidance ensures that ANVESH grows as a platform where students can engage with emerging ideas, deepen their research mindset, and explore AI/ML beyond the classroom.

Some of the recent sessions on Machine Learning organised by ANVESH are: A Multidimensional Perspective on Intelligence, LIME x AI approach, and energy efficient clustering in IoT using the Osprey Optimization Algorithm, reflecting the group's commitment.

ANVESH is a significant step toward building a research culture on campus. As a growing team, it calls on students from different walks of life to help in learning, asking questions, and contributing to this fast-growing world of artificial intelligence. If you share the same interest in AI and ML, ANVESH warmly invites you to join it on this journey.



Foreign Visit of Prof. Sushanta Mukhopadhyay

Prof. Sushanta Mukhopadhyay from the department of Computer Science and Engineering, represented IIT (ISM) Dhanbad during an official delegation to TU Leoben, Austria, from October 13 to October 17, 2025. Accompanied by Prof. Somnath Chattopadhyaya from the department of Mechanical Engineering and Prof. Radhakanta Koner from Mining Engineering, Prof. Mukhopadhyay toured key research facilities and engaged with university officials to identify specific avenues for laboratory collaboration.

The visit included an important meeting with His Excellency Shri Shambhu S. Kumaran, Indian Ambassador to Austria and Permanent Representative to the UN, held on October 16 at the JW Marriott, Vienna. The dialogue focused on strengthening academic ties and expanding research opportunities with Austrian universities.

Art's Arena: A Celebration of Design and Innovation

Art's Arena, the design competition organized by the Design Team of CSETimes, the magazine and newsletter division of the Computer Science and Engineering Society of IIT (ISM) Dhanbad, was held on 3rd November, at 7 PM in the Computer Science and Engineering department. The contest was open exclusively to students of the department, providing a focused platform for participants to showcase their creativity and understanding of design principles. The event encouraged students to think visually, conceptualize ideas under time constraints, and translate abstract themes into effective compositions. Conducted offline, the competition created an engaging atmosphere in which participants worked diligently to produce compelling design pieces.



The contest followed a clear set of guidelines to ensure fairness and originality. Students were required to create entirely original work within the given timeframe, without using existing poster templates or modifying previously published designs. Commercially free fonts and stock elements were permitted only if used transformatively, and AI-generated artwork could not serve as the main design asset. Each participant had to submit a verifiable source file to ensure transparency in the creation process, and only one submission per student was allowed. These rules ensured that the evaluation focused solely on creativity, technical execution, and conceptual clarity.

The competition concluded with strong participation and impressive submissions, demonstrating the growing design interest within the Computer Science and Engineering community. After the review, Apurva Arya, B.Tech 2028, was awarded the first place, Ippili Chinmayi, B.Tech 2029, the second place, and Butukuri Spoorthy, B.Tech 2029, the third place. Prizes worth 2.5K sponsored by Incesol added a motivating edge to the event. Overall, the competition proved to be an enriching experience that strengthened the department's creative culture and provided students with a meaningful platform to express their artistic abilities.

RECENTLY ACCEPTED RESEARCH WORK FOR PUBLICATION

Title: *LPSF-DA-VSS: Lightweight and Provably Secure Cloud-Server Framework for Data Access in Video Surveillance System*

Authors: P. Kumar, A. K. Pal, S. H Islam, and P. Soni

Accepted in: IEEE Transactions on Consumer Electronics, 2025

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