M.I.T INSIGHT NEWSLETTER

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Dr. Saquib Shakil
Principal
MIT, Rambagh

Welcome to Millia Institute of Technology (MIT) Rambagh, Purnea the first institution in the Seemanchal region, established in 2002. I feel proud enough, as MIT is one of the oldest colleges in the state of Bihar, with alumni who hold prestigious positions around the world. I am pleased to inform you that our institution is accredited by NAAC. We aim to provide our students with the quality education. In fact, the potential for education lies within each students we are here to encourage them to explore and enjoy the learning process. As the diversity of needs and globalization continue to grow, the demand for competitive skills is increasing day by day. The main purpose of MIT is to provide a platform where these needs can be met. We motivate students to develop leadership skills and encourage them to trust in themselves as they reach to great heights. I wish to remind you that each one of you has the power to shape your future.

I wish to remind you that each one of you has the power to shape your future. Embrace your uniqueness, pursue your passions, and never run away from challenges. Remember, growth often comes from stepping outside your comfort zone. Each of you holds incredible potential. Every day is an opportunity to learn, grow, and make a difference-not just in your own life, but in the lives of those around you.

Methods of Lungs Disease Diagnosis through Machine learning

Dr. Suman Mehta
HOD, Dept. of Computer Science Engineering

My manuscript, “Methods of Lungs Disease Diagnosis Through Machine Learning,” was published in the Journal of Jilin University (Engineering and Technology Edition), Volume 42, Issue 9, September 2023. The journal carries ISSN 1671-5497, and the published article is associated with DOI: 10.5281/zenodo.8358457. Research Focus The study addresses an important contemporary healthcare challenge: the use of computational techniques to assist in the classification and early identification of lung diseases.

Respiratory diseases such as pneumonia, tuberculosis and lung cancer can have serious consequences, making timely identification and appropriate clinical decision making particularly important. The research discusses how Machine Learning and Deep Learning techniques can support medical professionals in analyzing healthcare data and medical images.

The research examined a dataset containing 200 patient cases and 10 attributes, with data obtained from hospitals in Delhi. The study employed the WEKA 3.8.3 platform for data preprocessing and machine-learning analysis. Missing values were addressed and the data was randomized before model training. Comparative Study of Machine Learning Algorithms

A significant aspect of the research was the comparative evaluation of five machine learning techniques:

- Bayesian Networks
- Logistic Model Trees
- Bagging
- Logistic Regression
- Random Forest

The models were evaluated using several performance measures, including accuracy, precision, recall, kappa statistics, mean absolute error, root mean squared error and F-measure. Among the algorithms examined, Random Forest demonstrated the strongest classification performance, achieving an accuracy of approximately 90.1538% in the reported study. The findings indicated that machine-learning techniques have potential for supporting lung-disease classification and healthcare decision-making. Connecting Computer Science with Healthcare. The research represents an interdisciplinary connection between Computer Science, Machine Learning and Healthcare. It demonstrates how computational methods can be investigated as supportive tools for medical diagnosis, particularly where the availability of trained specialists and healthcare resources may be limited. The study also discusses the potential of Deep Learning and medical-image analysis, including the use of chest X-rays and CT images. Importantly, the research recognizes that such computational systems are intended as supporting tools rather than replacements for medical professionals.

Significance of the Research

The work highlights the growing role of Artificial Intelligence in modern healthcare. By applying systematic data preprocessing, model training, classification and performance evaluation, the study demonstrates a practical pathway for investigating Machine Learning applications in disease classification. The research concludes that Machine Learning approaches, particularly the Random Forest method in the reported experiments, can provide useful results for lung-disease classification. It also identifies opportunities for future research involving advanced Deep Learning techniques, Convolutional Neural Networks and other intelligent learning approaches to improve classification performance. The research work reflects the increasing importance of interdisciplinary research in which Computer Science and Artificial Intelligence are applied to real-world healthcare challenges. Research of this nature can contribute to the development of intelligent decision-support systems and encourage further investigation into affordable and accessible technology-assisted healthcare. The study therefore represents a meaningful academic contribution toward exploring how Machine Learning can support the future of intelligent healthcare and computer assisted disease classification.

Role of Mechanical Engineering in UAVs and Drones and its Future Prospect.

Mr. Obaidur Rahman
HOD, Dept. of Mechanical Engineering

Mechanical engineering plays a crucial role in the design, development, and performance of Unmanned Aerial Vehicles (UAVs), commonly known as drones. Mechanical engineers are responsible for designing the drone structure, frame, propulsion system, landing gear, propellers, and other mechanical components. They select lightweight and strong materials such as carbon fiber, aluminum alloys, and advanced composites to reduce weight while maintaining structural strength.

Aerodynamics is another important area, as engineers optimize the shape and propeller design to improve lift, reduce drag, increase stability, and achieve better flight efficiency. Computer-Aided Design (CAD), simulation, and Computational Fluid Dynamics (CFD) are used to analyze and improve UAV designs before manufacturing. Mechanical engineers also work on vibration control, thermal management, noise reduction, and cooling systems for motors and batteries. In the future, the role of mechanical engineering in UAVs is expected to become even more important. Future drones will likely be lighter, faster, quieter, more energy-efficient, and capable of carrying larger payloads. Advanced composite materials, smart structures, miniaturized propulsion systems, improved battery technologies, and innovative aerodynamic designs will support longer flight times and greater reliability. Mechanical engineers will also contribute to autonomous and swarm drones by developing highly efficient structures and mechanisms. The integration of mechanical engineering with artificial intelligence, electronics, robotics, and renewable energy technologies will lead to smarter and more sustainable UAV systems. Thus, mechanical engineering will remain a fundamental discipline in shaping the future of drone technology.

Contour Crafting (3D Building Printing)

AFSHAN JABI
(CIVIL ENGINEERING -6TH SEM)

The Future of Construction: Contour Crafting Imagine printing a whole house in hours. Contour Crafting, a groundbreaking 3D building printing technology, is turning this sci-fi dream into reality. Developed by Dr. Behrokh Khoshnevis, this automation process uses a colossal robotic 3D printer to layer specialized concrete, constructing sturdy building walls swiftly.

This innovation drastically reduces labor costs, slashes material waste, and minimizes construction injuries.

Beyond commercial housing, it holds immense potential for rapid disaster-relief shelter deployment and even building structures on the Moon or Mars. As sustainability takes center stage, Contour Crafting stands out as the ultimate eco-friendly future of global architecture.

REPORT ON WORLD ENVIRONMENT DAY CELEBRATION

Millia Institute of Technology, Rambagh, Purnea celebrated World Environment Day on 5 June 2026 with active participation of the faculty and staff. The programme was organized to create awareness about environmental protection, sustainability, conservation of natural resources and the importance of maintaining a clean and green campus.

The celebration was conducted in the spirit of the theme “Inspired by Nature. For Climate. For Our Future.” As part of the programme, faculty and staff members participated in a tree-plantation activity on the college campus and planted saplings to promote a greener and healthier environment. The activity highlighted the responsibility of every individual towards protecting nature and encouraged collective efforts for a sustainable future. The programme was meaningful and successfully conveyed the message that small actions, when taken collectively, can make a significant contribution towards environmental conservation.

A Job Fair was organized by Millia Institute of technology, Rambagh Purnea on 1st August with the objective of providing students with opportunities to interact with prospective employers and explore suitable career options. The event witnessed enthusiastic participation from students and representatives of various organizations. The participating companies conducted interactions, interviews, and selection processes for different job roles. The fair provided students with valuable exposure to the recruitment process, helped them understand industry expectations, and enhanced their confidence in facing interviews. Overall, the Job Fair was a successful initiative that strengthened the connection between the college and the corporate sector while creating promising career opportunities for students.

जी एस न्यूज

पूर्णिया प्रमंडल/सीम

एमआईटी में विशाल जॉब मेला, 700 से अधिक अभ्यर्थियों ने लिया भाग

जीएस न्यूज

पूर्णिया : युवाओं को रोजगार के बेहतर अवसर उपलब्ध कराने के उद्देश्य से मिल्लिया इंस्टीट्यूट ऑफ टेक्नोलॉजी (एमआईटी), रामबाग में शनिवार को विशाल जॉब मेले का आयोजन किया गया। इसमें 700 से अधिक अभ्यर्थियों ने भाग लिया। मेले में टेकमीन आईटी सॉल्यूशंस, टाटा मोटर्स, मारुति सुजुकी, टोयोटा, पैनोरमा ग्रुप, पेरीकैप ग्लोबल, हायर रिक्रूटमेंट, विजन इंडिया, चायोत्पूनर एनर्जी और हैबी एडटेक सहित कई कंपनियों ने विभिन्न पदों के लिए चयन प्रक्रिया संचालित की। कार्यक्रम का उद्घाटन एमआईटी के निदेशक डॉ. अब्दुल समद, प्राचार्य डॉ. साकिब शकील, पूर्णिया विश्वविद्यालय के कुलपति डॉ. विवेकानंद सिंह, लीगल एडवाइजर कैसर इमाम तथा विभिन्न कंपनियों के एचआर प्रतिनिधियों ने संयुक्त रूप से दीप प्रज्वलित कर किया। निदेशक डॉ. अब्दुल समद इमाम ने कहा कि संस्थान का उद्देश्य विद्यार्थियों को गुणवत्तापूर्ण तकनीकी शिक्षा के साथ उद्योगों की जरूरतों के अनुरूप तैयार कर बेहतर रोजगार के अवसर उपलब्ध कराना है। कुलपति डॉ. विवेकानंद सिंह ने कहा कि वर्तमान समय में डिग्री के साथ कौशल और व्यावहारिक ज्ञान भी आवश्यक है तथा ऐसे जॉब मेले युवाओं को उद्योग जगत से सीधे जुड़ने का अवसर प्रदान करते हैं। प्राचार्य डॉ. साकिब शकील ने कहा कि संस्थान रोजगारोन्मुख शिक्षा, कौशल विकास और प्लेसमेंट गतिविधियों को बढ़ावा देने के लिए लगातार प्रयासरत है। वहीं, ट्रेनिंग एंड प्लेसमेंट ऑफिसर प्रो. ओबैदुर रहमान ने बताया कि अभ्यर्थियों का पंजीकरण, लिखित परीक्षा और तकनीकी व एचआर साक्षात्कार के माध्यम से चयन प्रक्रिया पूरी की गई।

कई अभ्यर्थियों का प्रारंभिक चयन किया गया, जबकि अन्य को अगले चरण के लिए शॉर्टलिस्ट किया गया है। अंतिम परिणाम एक से दो सप्ताह के भीतर घोषित किए जाने की संभावना है। कार्यक्रम में संस्थान के विभागाध्यक्ष, शिक्षक, कर्मचारी तथा बड़ी संख्या में छात्र-छात्राएं उपस्थित रहे। प्रतिभागियों और कंपनियों के प्रतिनिधियों ने आयोजन की सराहना करते हुए इसे युवाओं के लिए उपयोगी पहल बताया।

Upcoming Events

- Academic Achievement Award
- Sports Week
- Cultural Activites and Many More
- Quiz Contest

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