

SciTech Chronicles

SCHOOL OF TECHNOLOGY & SCIENCES

NEWSLETTER

MAY-2025



Message

"REMEMBER, LEADERSHIP IS NOT JUST ABOUT ACHIEVING GOALS; IT'S ABOUT INSPIRING OTHERS TO ACHIEVE THEM TOGETHER. BY BLENDING THE WISDOM OF THE PAST WITH THE REALITIES OF THE PRESENT, LEADERS CAN NAVIGATE THE COMPLEXITIES OF THE MODERN WORLD AND CREATE LASTING IMPACT."

-Dr. Raul V. Rodriguez
Vice-President
Woxsen University



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"I BELIEVE THAT EDUCATION IS NOT MERELY THE ACQUISITION OF KNOWLEDGE, BUT THE CULTIVATION OF WISDOM. WE WILL STRIVE TO CREATE A HOLISTIC LEARNING EXPERIENCE THAT FOSTERS INTELLECTUAL CURIOSITY, ETHICAL CONSCIOUSNESS, AND CULTURAL SENSITIVITY. BY PROVIDING OPPORTUNITIES FOR EXPERIENTIAL LEARNING, MENTORSHIP, AND COMMUNITY ENGAGEMENT, WE WILL EQUIP OUR STUDENTS WITH THE SKILLS AND VALUES NEEDED TO SUCCEED IN AN EVER-EVOLVING WORLD."

-Dr. Uma Ananda
Vice Chancellor
Woxsen University

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Message



"IN MY SCHOOL OF TECHNOLOGY IT IS NOT JUST ABOUT THE CUTTING-EDGE LABS WITH THE LATEST GPUS AND SYSTEMS BUT THE ENVIRONMENT AND THE MENTORS AMONG THE FACULTY."

-Dr. Peplluis Esteva de la Rosa

Executive Dean
School of Technology

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"AS DEAN OF THE SCHOOL OF SCIENCES, I'M PROUD OF OUR STUDENTS AND FACULTY FOR THEIR HARD WORK. OUR LABS ARE HELPING DRIVE EXCITING RESEARCH AND HANDS-ON LEARNING. I LOOK FORWARD TO THE CONTINUED SUCCESS OF OUR COMMUNITY."

-Dr. Daya Shankar

Dean
School of Sciences

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Table of Contents

1.Science and Technology News	5
2.Faculty Achievements	9
3.Student Achievements	14
4.BTech Placements 2025	17
5.Article on AI-Powered Detection of PCOS	19
6.Puzzle Time!!	21
7.Answers for the previous puzzle	22

SCIENCE AND TECHNOLOGY NEWS

As we conclude another impactful academic year at the School of Technology, Woxsen University, we proudly reflect on a journey that has been nothing short of transformative. With our distinctive B.Tech program where passion meets purpose, students have not only acquired technical mastery but also embraced values of ethics, responsibility, and sustainability (ERS), turning knowledge into action across multiple dimensions.

Curriculum Crafted for the Future:

Our industry-aligned curriculum continues to evolve, incorporating cutting-edge technologies and emphasizing project-based learning and experiential modules. From foundational skills to advanced certifications, students have access to a flexible learning ecosystem tailored for real-world readiness.

- 1) Skill-based modules
- 2) Global certifications in AI, Cybersecurity, Data Science
- 3) Industry collaborations that bridge the gap between classroom and corporation

Beyond the Classroom: Creating Global Citizens

Our belief in holistic education manifests through vibrant student-led initiatives and international exposure.

The academic year saw enthusiastic participation in:

- International exchanges & global classrooms
- Hackathons, Tech Fests, and National Competitions
- ERS Activities rooted in sustainability and social impact

Students showcased their innovations and problem-solving acumen not just on campus, but on national and global platforms—representing Woxsen with distinction.

Empowering Research & Innovation

2024-25 was a hallmark year for faculty-student research collaborations, resulting in multiple:

- Journal publications & conference presentations
- Patent filings and prototype showcases
- R&D participation by undergraduates as early as their second year
- Poster presentations and technical paper writing were integrated across the curriculum to enhance scholarly engagement.

ERS Activities: Tech for Good

This year's ERS efforts included unique outreach programs such as:

- AIML, CSE and Cyber Security awareness workshops for rural youth
- Crypto & cyber escape room simulations for students aged 15–18.

SCIENCE AND TECHNOLOGY NEWS

Community engagement involving Woxsen's staff, reinforcing inclusivity and collaboration.

These activities ensured that technology was not just about advancement, but also about impact and responsibility.

Customized Career Tracks for Diverse Aspirations

Our students flourished across four defined tracks:

Research Track – Think tanks, data labs, PhD prospects

Industry Track – Placement in MNCs, tech firms, product companies

Entrepreneurship Track – Start-up incubation through Trade Tower

Public Service Track – Impactful work in NGOs, policy spaces, civil services

These pathways ensured that each student had a roadmap aligned with their purpose and passion.

Faculty Excellence

With a team comprising A Class and international experts, Woxsen faculty have played a pivotal role in mentoring, publishing, consulting, and shaping the next generation of technologists.

Placement Highlights 2025

Our final-year students saw unprecedented opportunities, with marquee offers from:

Tech giants, consulting firms, and global innovators

Top package offers reaching up to 25 LPA

Internship-to-placement conversion exceeding expectations

The placement success is a reflection of our rigorous academic model, robust mentoring, and relentless focus on industry-readiness.

Looking Ahead

As we close this academic chapter, we carry forward momentum into the next year with expanded global collaborations, new lab setups, cutting-edge electives, and an unwavering commitment to quality and equity in tech education.

The School of Technology continues to stand as a beacon of excellence where purpose-driven engineering isn't a slogan—it's a way of life.

SCIENCE AND TECHNOLOGY NEWS

First Aid Awareness & Training Camp | Care & Cure – Woxsen University

As part of our continued commitment to safety and wellness on campus, Care & Cure organized a Medical Health Camp for hostel wardens and housekeeping in-charges. The camp aimed to raise awareness about first aid in major medical conditions and ensure our support staff are better equipped to handle health-related emergencies. The session was led by our Doctors, who provided hands-on training, demonstrations, and practical guidance.



Plant Mitra 2.0: Plant Today Prosper Tomorrow

On the occasion of World Environment Day, the School of Sciences at Woxsen University successfully organized "Plant Mitra 2.0: Plant Today, Prosper Tomorrow" on Thursday, 5th June 2025. This impactful initiative aimed to raise awareness and inspire action toward environmental sustainability.

The event featured a Plantation Drive, an Awareness Session, and an Interactive Quiz, held from 2:30 PM to 4:30 PM at LT-4, Woxsen University.

The enthusiastic participation and support from attendees added immense value to the initiative. Together, we took a meaningful step toward a greener and more sustainable future.



Youth Led Change: BSc Students Tackled Real-World Challenges

We were proud to showcase the remarkable work of our first-year BSc students from the School of Sciences, Woxsen University! As part of their societal internship projects, they identified and addressed critical gaps in:

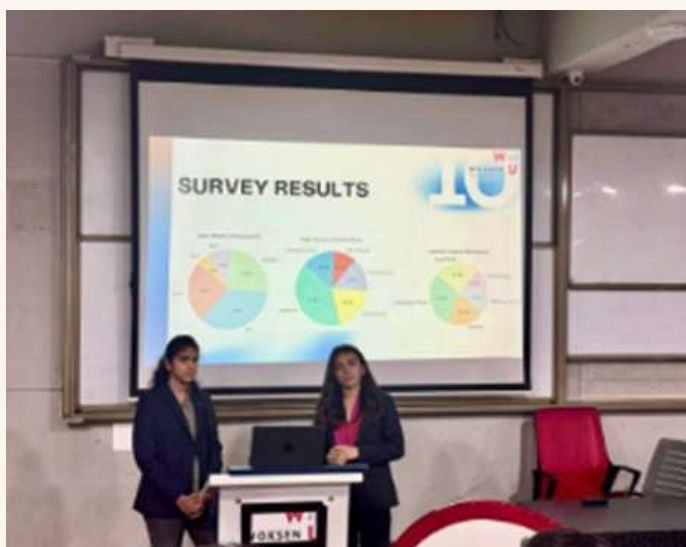
Education (e.g., promoting digital literacy in rural communities)

Healthcare (e.g., conducting mental health awareness campaigns)

Sustainability (e.g., developing innovative waste management solutions)

SCIENCE AND TECHNOLOGY NEWS

Their hands-on approaches demonstrated that young minds + passion = tangible impact. From in-depth research to grassroots action, these students stepped up to create real change, proving that age is no barrier to leadership and innovation.



Leadership workshop at woxsen university

A leadership workshop was conducted at Woxsen University, exclusively for the Assistant Deans and Department Directors of the School of Sciences, under the guidance of Dr. Daya Shankar Tiwari, Dean – School of Sciences. The session aimed to strengthen leadership capabilities and promote operational excellence across departments.

A key highlight of the workshop was the introduction of the Eisenhower Prioritization Matrix, a practical tool designed to enhance time and task management by categorizing responsibilities into four quadrants:

Do First, Schedule, Delegate, and Eliminate. Participants engaged in interactive discussions and exercises that encouraged them to reassess their current workflows, identify and minimize time-wasting activities, and adopt a more strategic approach to decision-making. The session fostered a collaborative environment, enabling leaders to align their departmental goals more effectively with the broader academic objectives of the university.

The workshop was well-received, with participants expressing appreciation for the actionable insights shared. Dr. Tiwari's expertise and leadership were instrumental in guiding this impactful session, which marked a significant step toward cultivating a culture of thoughtful leadership and continuous improvement at the School of Sciences.



FACULTY ACHIEVEMENTS



G. Kesava Datta
B.Tech, School of Technology,
Woxsen University



Dr. Bhanu Prakash S
Assistant Professor, School of Technology,
Woxsen University



V. Lakshmi Shivani
B.Tech, School of Technology,
Woxsen University



P. Kritika Reddy
B.Tech, School of Technology,
Woxsen University

**J. Kesava Datta, Dr. Bhanu Prakash S,
V. Lakshmi Shivani, P. Kritika Reddy**
SOT, Woxsen University

Multi-Mode Cleaning System – Published
Patent Application (Application No.
202541037701 A)

Filed On: 18 April 2025 | Published On: 9 May
2025

A patent for a multi-mode cleaning system
designed for real-time clogged particle
removal using mechanical and suction
cleaning units, enhancing sanitation
automation systems.

**Dr. Bhargav Prajwal Pathri,
Krishna Vamshi Ganduri,
Kommineni Sai Sri Laxmi, Karla
Vineetha, Keta Suchitra Shekhar,
Syed Ayan Ahamed, Siddamshetty
Vaishnavi, Vempala Thamnayi**

Assistant Professor, SOT, Woxsen University

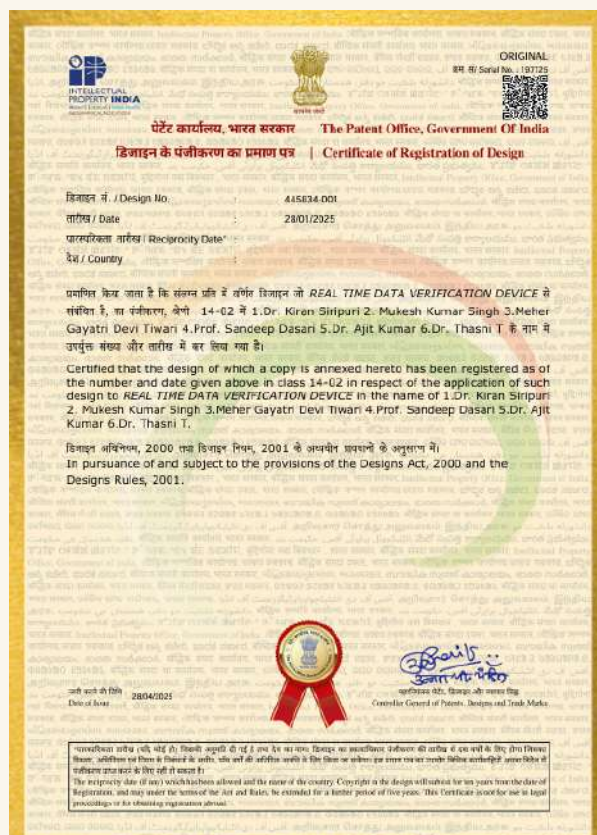
PSafeLift: Next-Gen Borewell Child Rescue Robot
– Patent Filed (Application No. 202541041743)

Filed On: 30 April 2025 | Published On: 30 May
2025

Field: Biomedical Engineering

This patent proposes a robotic solution aimed at
rescuing children trapped in borewells,
reinforcing social impact through engineering.

Application Details	
APPLICATION NUMBER	202541041743
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	30/04/2025
APPLICANT NAME	1. Dr. Bhargav Prajwal Pathri 2. Mr. Krishna Vamshi Ganduri 3. Kommineni Sai Sri Laxmi 4. Karla Vineetha 5. Keta Suchitra Shekhar 6. Mr. Syed Ayan Ahamed 7. Ms. Siddamshetty Vaishnavi 8. Ms. Vempala Thamnayi
TITLE OF INVENTION	SafeLift: Next-Gen Borewell Child Rescue Robot
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	bhargavpathri@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	30/05/2025



**Dr. Kiran Siripuri,
Prof. Mukesh Kumar Singh,
Prof. Meher Gayatri Devi
Tiwari, Prof. Sandeep
Dasari, Dr. Ajit Kumar, Dr.
Thasni T**

SOT, Woxsen University

Design Registration for Real
Time Data Verification Device
Issued By: Patent Office of India
Category: Class 14-02
Recognized for innovative design
in real-time data verification
under the Designs Act, 2000.

Dr. Ajit Kumar

Assistant Professor, SOT, Woxsen University

Journal Publication: "Ultrafine Tuning of
Graphene Oxide for Nanoelectronics" – –
ACS Applied Materials & Interfaces
[[https://pubs.acs.org/doi/abs/10.1021/ac
sami.5c00862](https://pubs.acs.org/doi/abs/10.1021/ac
sami.5c00862)]



Prof. Sandeep Dasari

Book Chapter: "Blockchain in Healthcare Management Systems" – IGI Global
[[https://www.igi-](https://www.igi-global.com/gateway/chapter/379636)

[global.com/gateway/chapter/379636](https://www.igi-global.com/gateway/chapter/379636)]

Journal Article: "A Hybrid AI-Based Prediction Model for ECG Arrhythmia Classification" – JISEM [<https://jisem-journal.com/index.php/journal/article/view/8660/3961>]



Prof. Amogh Deshmukh, Dr. Pepluis Esteva de la Rosa, Dr. Raul Villamarin Rodriguez, Prof. Sandeep Dasari

Journal Article: "Sensor-Based Decision Making in Smart Spaces Using Federated Learning" – MDPI Sensors Journal
[<https://www.mdpi.com/1424-8220/25/10/3043>]

Dr. Bhargav Prajwal Pathri & Dr. S Bhanu Prakash

Edited Book: "Emerging Applications of AI in Engineering and Healthcare" – Cambridge Scholars Publishing
[<https://www.cambridgescholars.com/product/978-1-0364-4827-1>]



Dr. S Bhanu Prakash

Book Chapter: "Enhancing Recovery of Renewable Energy with AI and ML" – IGI Global
[<https://www.igi-global.com/chapter/enhancing-recovery/380901>]

Dr. Amlan Kanti Halder

Best Teaching Faculty of School of Science in Woxstar.

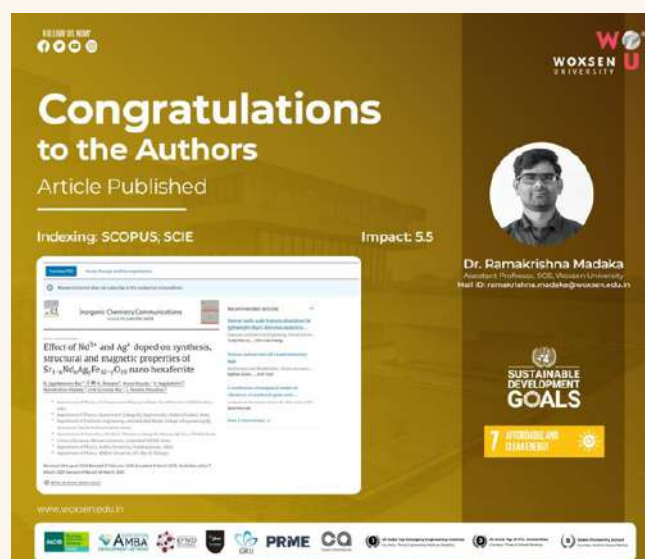


Dean (Dr. Daya Shankar Tiwari), School of Sciences, Woxsen University, fostered a culture that goes beyond academics, administration, and research—it's about holistic growth! Your unwavering support for **sports** has been instrumental in our success.

Dr. Ramakrishna Madaka

Assistant Professor, School of Sciences, on his latest research publication in Inorganic Chemistry Communications by Elsevier.

The article, now indexed in SCOPUS and SCIE with an impact factor of 5.5, explores the magnetic and structural properties of nano hexaferrites — contributing to advancements in sustainable and clean energy solutions.



Dr. Daya Shankar's Participation at Asia Pacific Rail 2025



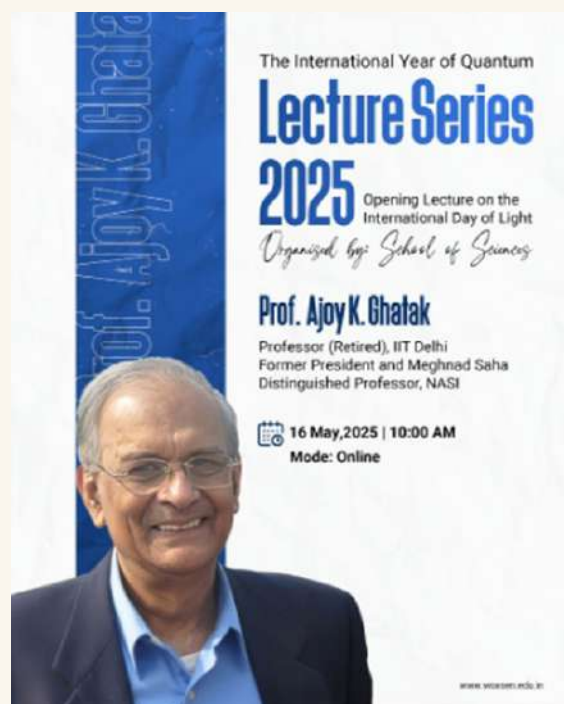
Dr. Daya Shankar had the honor of speaking at Asia Pacific Rail 2025, one of the region's most influential gatherings focused on rail innovation and infrastructure. As a strong advocate for integrating AI, medical imaging, and sustainable technologies to create social impact, Dr. Shankar contributed to critical discussions that bridged the gap between engineering innovation and public welfare.

Drawing from his experience in developing solar-powered ambulances, smart medical devices, and leading academic innovation at Woxsen University, he emphasized the importance of aligning technology with societal needs. In his address, Dr. Shankar highlighted rail as a vital component of this transformation, advocating for its role in enabling sustainable, accessible, and inclusive infrastructure. His participation enriched the dialogue with cross-disciplinary insights and reaffirmed his commitment to harnessing technology for the public good.



Prof. Ajoy K Ghatak conducted on The International Day of Light, May 16th, 2025.

Distinguished Opening Lecture -
"EVOLUTION OF QUANTUM THEORY,
ENTANGLEMENT & A SIMPLE DERIVATION
OF BELL'S INEQUALITY"



STUDENT ACHIEVEMENTS

The months of April and May 2025 have been marked by commendable student achievements across diverse domains ranging from cutting-edge technologies to impactful social contributions.

Several students showcased their technical prowess by participating in advanced workshops. **Asmitha S** completed a workshop on Generative AI in collaboration with IIT Hyderabad,

In the domain of Full-Stack Development, students **M Dashwanth, P Sandeep Sagar, Sudarshan Maddi, Jashvanth Reddy, Navatej Reddy, and Prakash Abhinay** earned certificates of participation from SKILLIGENCE ECTECH during a hands-on workshop at BITS Hyderabad.

A special mention goes to **Dakshina B** for her leadership in organizing National Pi Day 2025, a standout event hosted by the School of Sciences.

Likewise, **Bharath Kumar Ch** contributed as an Assistant Trainer with Growth Ninja, earning a certificate of appreciation.



while **Vridhi Vazirani** excelled in Data Analytics and also participated in the International Workshop on Blockchain Technology and Data Science, alongside peers **Akshaya, Dakshina B, Hemanth Reddy, Mahesh Gurram, Rohan Kumar Reddy, Sai Yaswanth,** and others.



Academically, **Palak Dwivedi** represented Woxsen at the 1st International Conference on Integrating Cognitive Science and Computational Intelligence (ICSCI 2025),



and **Lakshya Bamboli** attended a thought-provoking workshop titled Deconstructing Machiavelli, led by Dr. Raul V. Rodriguez.

Adding to the list of milestones, **K Sai Vignesh** secured a prestigious internship at the Satish Dhawan Space Centre (SHAR), and **Safa Nazneen** successfully participated in the Common Internship Test by Internship Studio.

Lastly, **J Venkata Satya Sai** made the university proud by publishing a heartfelt book titled "Lovability: Love Knows No Disabilities"—an inspiring example of creativity and empathy.



Navatej Yedavelli completed Full-Stack Development workshop conducted by Skilligence Edtech in association with BITS Pilani Hyderabad



As we celebrate these diverse accomplishments, we take pride in our students who continue to embody excellence, leadership, and innovation.

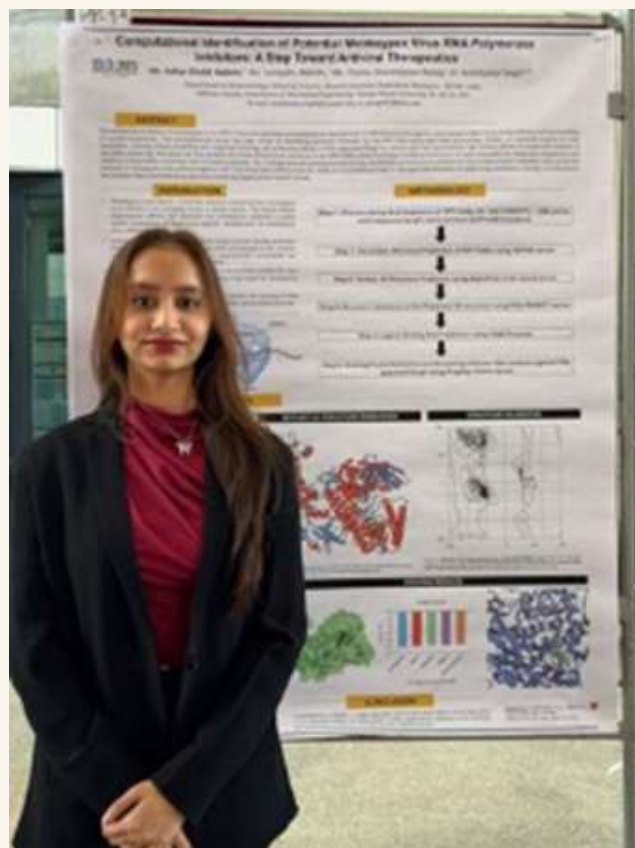
STUDENT ACHIEVEMENTS

Five students have secured internships at top institutes across India, starting in May 2025.

Ms. Yeshaswini Veeramachaneni received internship offers at both IIT Gandhinagar (from 15th May) and IISER Bhopal (from 26th May). **Ms. Aanchal Pallod** is headed to IIT Hyderabad (from 12th May), while **Ms. Reetika Pechetty** will join IISER Bhopal (from 26th May). **Ms. Malavika Manoj** begins her internship at IIT Guwahati on 10th May. These internships reflect the students' academic excellence and offer valuable research exposure.

R. Pechetty, Y. Veeramachaneni, A. K. Singh, "Targeting Synaptic Degeneration: Repurposing FDA-Approved Drugs to Inhibit Ephexin5 in Alzheimer's Disease," Horizons in Structural and Computational Biology (HSCB) – 2025, Indian Institute of Technology Hyderabad (IITH) & University of Hyderabad (UoH), Hyderabad, India, 28 Feb - 1 Mar, 2025.

A. Kadam, "Computational Identification of Potential Monkeypox Virus RNA Polymerase Inhibitors: A Step Toward Antiviral Therapeutics," Horizons in Structural and Computational Biology (HSCB) – 2025, Indian Institute of Technology Hyderabad (IITH) & University of Hyderabad (UoH), Hyderabad, India, 28 Feb - 1 Mar, 2025.



BTECH-2025 PLACEMENTS

Woxsen University B.Tech 2025 Batch Achieves Stellar Placement Outcomes Placement Spotlight

Woxsen University has once again raised the bar with its Final Placement Report for the B.Tech 2021–2025 batch, showcasing impressive achievements across all key metrics. The report, recently released by the university, reflects strong industry alignment, rising compensation trends, and a diverse range of career opportunities secured by graduating students.

Highlights at a Glance:

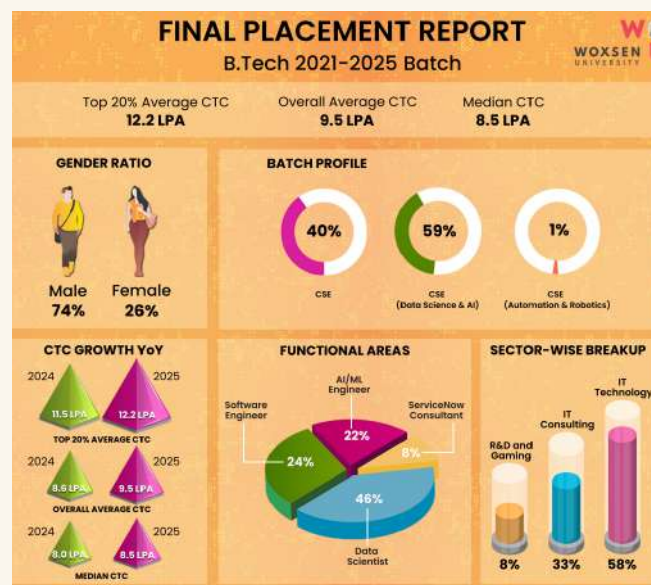
- Top 20% Average CTC: ₹12.5 LPA
- Overall Average CTC: ₹9.5 LPA
- Median CTC: ₹8.5 LPA

These numbers indicate a healthy placement season with a notable increase across all salary benchmarks. Compared to 2024, the top 20% average CTC jumped from ₹11.5 LPA to ₹12.2 LPA, while the overall average CTC rose from ₹8.6 LPA to ₹9.5 LPA. The median CTC also saw an uptick from ₹8.0 LPA to ₹8.5 LPA.

Batch Demographics:

The batch comprised a significant gender skew, with 74% male and 26% female students. In terms of academic specialization:

- 59% belonged to CSE (Data Science & AI)
- 40% to Core CSE
- 1% pursued CSE (Automation & Robotics)



Functional Roles:

Graduates found opportunities in diverse domains:

- Data Scientist roles dominated, accounting for 46%
- Software Engineer positions came in second at 24%
- AI/ML Engineer roles made up 22%
- ServiceNow Consultant positions constituted the remaining 8%

Industry Sector Distribution:

The sector-wise placement data reinforces Woxsen's robust ties with the tech industry:

- IT Technology emerged as the top sector with 58% placements
- IT Consulting followed at 33%
- R&D and Gaming accounted for 8%, showing promising diversification

BTECH-2025 PLACEMENTS

Woxsen University B.Tech 2025 Batch Achieves Stellar Placement Outcomes Placement Spotlight

Strong Industry Backing with 48 Esteemed Recruitment Partners

Woxsen University's stellar placement season was made possible by the robust participation of 48 top-tier recruitment partners spanning diverse industries. The hiring companies included global consulting firms, tech innovators, fintech startups, and product-based enterprises, underscoring the university's growing reputation in the industry.

Some of the prominent names among the recruiters include:

- KPMG, Virtusa, Tech Mahindra, Thoughtworks, and dentsu – representing leading consulting and IT services.
- HighRadius, TensorGo, ElectricPe, and Saffron.AI – showcasing the presence of AI and fintech leaders.
- DeltaX, Cprime | INRY, Mindforce, and OpenPlay – from the digital transformation, analytics, and entertainment tech spaces.

The presence of companies like Buyhatke, Ninjacart, HARMAN, AdMedia, and Gimbal Space also indicates a broad recruitment footprint across e-commerce, agritech, mobility, media, and space-tech sectors.

This strong industry engagement is a testament to Woxsen's commitment to real-world readiness and its ability to nurture tech-savvy, versatile professionals ready to thrive in the evolving global economy.



AI- POWERED DETECTION OF PCOS

Achievements of Deep Learning in Women's Health A significant percentage of women suffer from PCOS, as it is underdiagnosed because of lack of knowledge and the complexity of its diagnosis. To break this complexity, created a deep learning-driven diagnostic tool that utilizes transfer learning and convolutional neural networks (CNNs) to identify PCOS from ultrasound images accurately and clinically readable.

Five various model structures were investigated and contrasted in our study: NASNet-Mobile, VGG-16 with Feature Extraction, CNN with Data Augmentation, CNN with Transfer Learning, and Basic CNN. Our analysis was performed using a carefully selected dataset of annotated ultrasound images for training and testing the models

NASNet-Mobile with 93.8% accuracy was the best among them. It also had high performance on other performance measures such as 0.92 precision, 0.95 recall, and 0.94 F1-score. It also generated clinically relevant Grad-CAM heatmaps that pointed towards diagnostic areas in the ultrasound images that were consistent with medical findings.

VGG-16 was a good backup choice because it had very high interpretability and richness of features.

We employed data augmentation techniques to provide a boost to the model's generalisation, and this was reflected in enhanced performance for a variety of noisy input images. Explainability, a crucial characteristic for real-world application within the healthcare domain, was achieved by the addition of Grad-CAM visualisations.

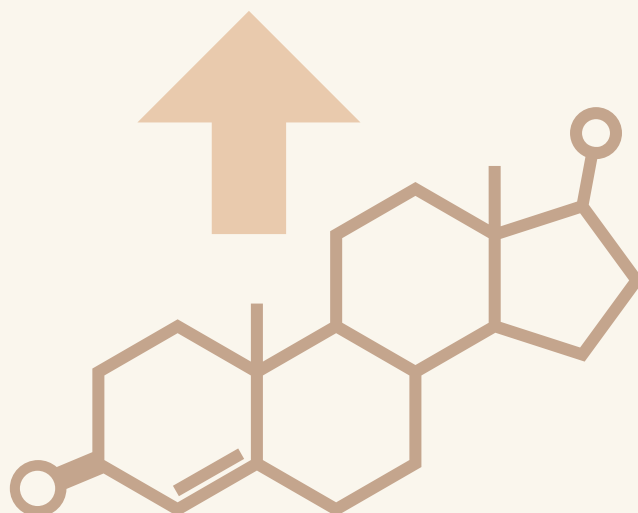
The validation and training accuracy curves did not show any considerable overfitting and steady convergence, which confirmed the strength of our models. The potential of deep learning in the use of medical diagnostics was also highlighted by the confusion matrices of the top model, which demonstrated high classification accuracy with relatively little misclassifications.

This research study is an example of the judicious application of artificial intelligence and its ability to tackle actual healthcare issues. This technology can be used in primary health centers, particularly in impoverished areas, with

more development and clinical trials.

Future works:

We plan to scale up the dataset and incorporate clinical metadata for multi-modal learning. Ongoing research will explore more sophisticated architectures including Vision Transformers and deploy privacy-preserving technologies like federated learning for responsible, scalable rollout.



Our work lays the groundwork for smarter, AI-driven women's health diagnostic tools by combining high performance and interpretability, putting us closer to universal access to high-quality healthcare.

By-

Gadeela Shravinya
Konduri Sai Meghana
S. Sri Sai Siri

PUZZLE TIME !

The Library of Shadows

Deep beneath an abandoned citadel lies the Library of Shadows, a mystical archive filled with sentient books. Each book contains riddles, and only by solving them in the correct sequence can you unlock the door to freedom.

You awaken at the center of the library, in front of seven pedestals, each holding a book bound in a different material:

1. Iron-bound
2. Leather-bound
3. Glass-bound
4. Oak-bound
5. Silk-bound
6. Ash-bound
7. Stone-bound

Each book is enchanted to give you a clue — but only when opened in a specific order. Opening a book out of order causes all previous progress to reset.

Rules:

- Only one book may be opened at a time.
- After opening a book, it gives a coded riddle hinting at which book should come next.
- You may take notes, but cannot open more than one book at once.
- You must open all seven books in the correct sequence to escape.

You begin with the following first clue, already inscribed on the central pedestal:

"Stone is never first.

Oak is third if Iron isn't second.

Silk follows Ash but not immediately.

Glass comes before Silk.

Leather is earlier than Ash but not the first.

The Iron-bound book is not adjacent to the Oak-bound one."

The Puzzle

In what order should you open the seven books?

ANSWERS FOR THE PREVIOUS PUZZLE

The Timekeeper's Labyrinth

You find yourself in The Timekeeper's Labyrinth, a place where time itself folds and twists. Every room is connected to multiple other rooms, but they are not arranged linearly. Each room contains a clock and a door. The clock in each room shows a different time, but they are not random; they follow a pattern. You can only move to rooms where the time displayed on the clock is a minute later or a minute earlier than your current room. Your goal is to reach the room where the clock shows 12:00, where the Timekeeper himself awaits with all the answers. The catch? You start in a room where the clock shows 00:00. The labyrinth is infinite, with rooms stretching endlessly in all directions. Each room has a unique identifier corresponding to the time displayed on its clock (e.g., "03:15" or "10:47"). You cannot go backward to the same room you came from unless you first visit at least two other rooms. The Puzzle What algorithmic strategy would you use to reach 12:00 as efficiently as possible?

The long-awaited Answer

Modified Breadth-First Search (BFS) with state tracking to enforce the revisit constraint:

- Each node: a time "hh: mm"
- Transitions: ± 1 minute
- Track the last 3 rooms visited to avoid direct backtracking
- Stop when you reach "12:00"

Editor's Note

May 2025 Edition – Momentum into the Future

As we turn the page into May, SciTech Chronicles continues to be a living archive of the energy, innovation, and resilience. Each edition not only highlights milestones but also traces the momentum building across research, collaboration, and student-led exploration.

This month, we shine a spotlight on the growing convergence between emerging technologies and real-world application. From data science to clean energy, student innovation is no longer confined to the lab—it's evolving into prototypes, policy conversations, and public impact. Faculty development sessions, academic industry partnerships, and the scaling of our interdisciplinary projects signal a dynamic summer ahead.

May is also a time for reflection and recalibration. With semester closures and upcoming global engagements, we look forward to a season filled with research immersion,

Editor's Note

tech bootcamps, and thought leadership initiatives. The pursuit of knowledge doesn't pause—it transforms.

We're proud of what's in motion and even more excited about what's coming next. To our readers and contributors: thank you for fueling the vision. Let's keep pushing the boundaries of what's possible.

Onward and upward,

Editor-in-Chief

SciTech Chronicles

Woxsen University



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