

# AI&DS

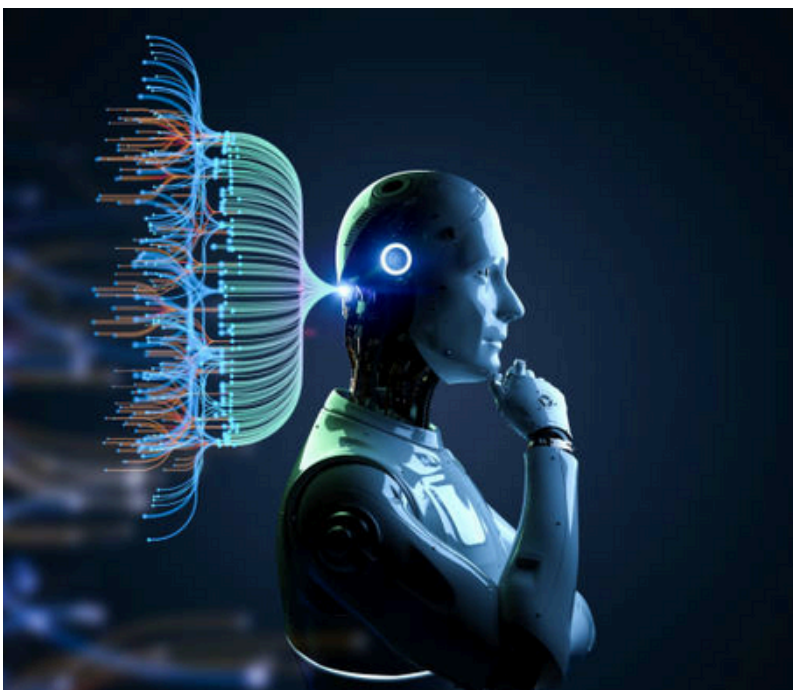
# Insights

Monthly Awareness Bulletin

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Batch 2025



Even the smallest  
person can change  
the course of the  
future.

Galadriel, The Lord of the Rings

## Faculty Article

# Cracking the Code of Sarcoma: Why Early Detection Could Save Lives

### Imagine going to a doctor...

Imagine going to a doctor for a routine check-up and discovering a rare, aggressive cancer quietly growing in your body. This is the grim reality for many patients diagnosed with sarcoma, a group of cancers that often go unnoticed until it's too late.

Sarcoma might be rare, but its impact is anything but. These cancers can originate in bones, muscles, fat, or connective tissue and affect people of all ages. What makes sarcoma especially challenging is its stealthy nature—it doesn't always show symptoms early on, and when it does, they often mimic common health issues like swelling or a minor lump.

#### Why Early Detection Matters

In the world of cancer, time is everything. Catching sarcoma in its early stages can dramatically improve survival rates, reduce the need for aggressive treatments, and enhance the patient's quality of life. Yet, because it is so rare, many doctors may overlook it, leading to delayed diagnosis.

Our research highlights the importance of early detection tools and emerging technologies that can change this scenario. From advanced imaging techniques like MRI and PET scans to molecular diagnostics that detect genetic markers, the medical world is now better equipped than ever to recognize sarcoma early.

#### Behind the Research: A Deep Dive

We reviewed global studies, clinical guidelines, and cancer registry data to explore how sarcoma is currently diagnosed and treated. One key finding? While there's remarkable progress in understanding the molecular biology of sarcomas, there are still gaps in accessibility and awareness—especially in developing countries. Furthermore, we found that technologies like AI-powered imaging, liquid biopsy, and genetic profiling could revolutionize early diagnosis. However, these innovations are not yet available in most standard clinical settings.

### A Call to Action

Raising awareness among young healthcare professionals, students, and researchers is vital. Sarcoma might be rare, but with innovative thinking and technological advancement, we can turn the tide. Imagine AI that scans your routine MRI and flags a suspicious growth, or a simple blood test that reveals a molecular signature of sarcoma—these are no longer futuristic dreams.

As future engineers, scientists, and clinicians, students can play a role in developing better diagnostic tools, building awareness campaigns, and even designing AI models to assist doctors.

#### Closing Thoughts

Early detection of sarcoma isn't just a medical challenge—it's a multidisciplinary mission. Whether you're a coder, a biologist, or a design thinker, your innovation can contribute to saving lives.

Let's not wait until it's too late to find out what a small lump really means. Let's detect early.

### Let's save lives...



Dr. Vaishali Rajput  
Assistant Professor, AI&DS Department

## Activities



## FAREWELL- 2025

The Department of Artificial Intelligence and Data Science bid an emotional and celebratory farewell to the outgoing batch of 2024-25 with a vibrant and memorable event filled with joy, performances, and heartfelt moments.

The farewell celebration took place in a lively and warm atmosphere, attended by students, faculty members, and staff. The event commenced with a formal welcome, followed by a series of captivating dance performances that added energy and color to the evening. Students showcased their talent and creativity through classical, contemporary, and group dance routines that were enthusiastically received by the audience.

Adding a melodious touch to the occasion, a musical band comprising department students performed a soulful and energetic set of songs. Their music resonated with the spirit of the farewell, stirring emotions and creating a memorable experience for all present.

To keep the spirit high and interactive, various fun games and activities were organized, engaging both juniors and seniors. These games not only added fun to the event but also strengthened the bond between batches.

The highlight of the evening was a grand dinner followed by a DJ night. The delicious food and energetic music created a perfect environment for everyone to relax, celebrate, and dance the night away. The DJ session saw students and faculty dancing together, cherishing the final moments of togetherness.

The farewell concluded with warm wishes and best of luck messages for the graduating batch as they embark on their new journeys. The event served not just as a send-off but also as a celebration of memories, achievements, and friendships formed during their academic journey.

# Faculty Publications

Name	Summary
Dr. Minal Barhate	Patent Published Title :The Smart Safety system for Metro rail Vrushal Patil,Tanmay Zade,Shivani Yanpallewar,Rahul Yargop,Vedant Kothari,Dr. Parikshit N. Mahalle,Dr. Minal Barhate (TY,AIDS)
Lokesh Khedekar	QR Resume: Interactive Resumes with Video and Certificate Integration, <u>2025 International Conference on Inventive Computation Technologies (ICICT)</u> .
Lokesh Khedekar	Comparative Study of CNN Variants for Pneumonia Detection in Medical Imaging <u>2025 International Conference on Inventive Computation Technologies (ICICT)</u>

## Team - AI & DS INSIGHTS



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