

AI INSIGHTS

NEWSLETTER OF CSE (AI&ML) DEPARTMENT

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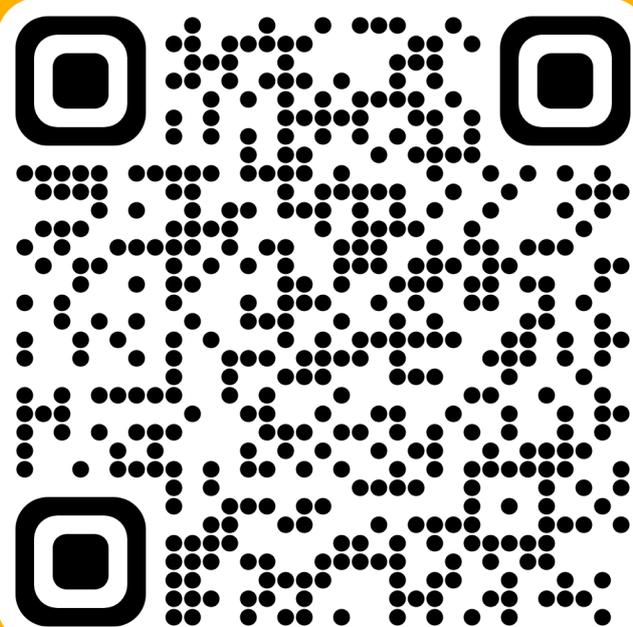
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Shri Akshat Goel

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Dr. D. K. Chauhan
Dr. B. C. Sharma
Dr. Vinish Kumar

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INSTITUTE

Vision

To continually develop excellent professionals capable of providing sustainable solutions to challenging problems in their fields and prove responsible global citizens.

Mission

We wish to serve the nation by becoming a reputed deemed university for providing value-based professional education.

DEPARTMENT

Vision

To emerge as an advanced center of learning to nurture professionals industry friendly, research oriented and value based in the field of artificial intelligence and machine learning.

Mission

M1: To train students in latest technological domain of Artificial Intelligence and Machine Learning.

M2: To inculcate ethical values, soft skills and leadership skills in students to serve the industry and society.

Message From Our Mentors



“Our mission is to empower our students and guide them towards a path of unparalleled success and excellence.”



Dr. B. C. Sharma
Director, RKGIT

Warmest congratulations to the Department of Computer Science & Engineering (Artificial Intelligence & Machine Learning) on the release of AI INSIGHTS – Volume 3, Issue 1! This edition beautifully reflects your commitment to academic excellence and innovation.

From exceptional academic achievements to active participation in clubs and extracurriculars, your students showcase a perfect blend of intellect and creativity.

Wishing the department continued success as you keep pushing boundaries and achieving new milestones in the world of AI and beyond!

Welcome to a New Semester in the CSE-AI&ML Department!

A warm welcome to all our bright minds – new and returning! You are now part of a field that is not just evolving, but leading the future. Artificial Intelligence and Machine Learning are at the heart of global innovation, and by being here, *you’ve stepped into a future full of possibilities.

This semester brings real-world projects, workshops, and research-driven learning – each designed to unlock your potential. Our faculty and facilities are here to support and empower you at every step.

Let’s make this semester a stepping stone towards a brighter tomorrow. AI is not just the future – it’s your future, and with the right mindset, there’s no limit to what you can achieve.



Dr. Vinish Kumar
*Professor & HOD
CSE (AI&ML), RKGIT*

Faculty Achievements



Dr. Vinish Kumar
Professor & HOD

- Presented research paper on **“Real-time Obesity and Heart Disease Monitoring with IoT and Deep Learning”** Presented at the International Conference on Smart Devices (ICSD-2024), Uttaranchal University, November 2024.
- **Enhancing Heart Disease Diagnosis Through Particle Swarm Optimization and Ensemble Deep Learning Models** Published as a book chapter in **“Nature-Inspired Optimization Algorithms for Cyber-Physical Systems”**, December 2024.
- Successfully completed the **Faculty Development Program (FDP)** on **“Entrepreneurship and Startup Development”** Held from 2nd September 2024 to 6th September 2024.
- Successfully completed **Bootcamp FDP** on **“Big Data & Data Science”** Conducted from 9th September 2024 to 13th September 2024.

- Presented research paper titled **“Analyzing the Ranking Order of the Requirements of an Information System Using Spearman's Rank Correlation Coefficient”**, organized by the Department of Computer Engineering & Applications, Mangalayatan University, Aligarh, Uttar Pradesh, India, on 22nd October 2024.
- Successfully completed the **Faculty Development Program (FDP)** on **“Entrepreneurship and Startup Development”** Held from 2nd September 2024 to 6th September 2024.
- Successfully completed **Bootcamp FDP** on **“Big Data & Data Science”** Conducted from 9th September 2024 to 13th September 2024.
- Delivered a guest lecture on **“Conflicts Among Non-Functional Requirements”** at **Indraprastha Institute of Information Science, Delhi**, on 25th July 2024.
- Served as **Reviewer at AECE-2024**, a conference Co-Sponsored by **IEEE UP Section**, organized by the Departments of ECE and CSE, R.K.G.I.T, Ghaziabad, U.P., India, held on 22nd–23rd November 2024.



Mr. Virat Raj
Assistant Professor

- Presented and published research paper titled **“A Healthcare System Employing Lightweight CNN for Disease Prediction with Artificial Intelligence”** in **The Open Public Health Journal**, dated 6th June 2024.
- Successfully completed the **Faculty Development Program (FDP)** on **“Entrepreneurship and Startup Development”** Held from 2nd September 2024 to 6th September 2024.
- Successfully completed **Bootcamp FDP** on **“Big Data & Data Science”** Conducted from 9th September 2024 to 13th September 2024.
- Delivered a guest lecture on **“Conflicts Among Non-Functional Requirements”** at **Indraprastha Institute of Information Science, Delhi**, on 25th July 2024.
- Served as **Reviewer at AECE-2024**, a conference Co-Sponsored by **IEEE UP Section**, organized by the Departments of ECE and CSE, R.K.G.I.T, Ghaziabad, U.P., India, held on 22nd–23rd November 2024.



Ms. Mahima Tayal
Assistant Professor

- Successfully completed **Bootcamp Faculty Development Program (FDP)** on **“Big Data & Data Science”** from 9th September 2024 to 13th September 2024.
- Successfully completed **Faculty Development Program (FDP)** on **“Entrepreneurship and Start-up Development”** from 2nd September 2024 to 6th September 2024.



Mr. Neeraj Kumar
(Assistant Professor)

Faculty Achievements



Mr. Vikas Gupta
(Assistant Professor)

- Published a research paper titled **"A Machine Learning Approach for the Identification and Classification of Cardiovascular Diseases Using ECG Signals and Sensor Data"** in **IEEE** on 18th November 2024.
- Successfully completed **Bootcamp Faculty Development Program (FDP)** on **"Big Data & Data Science"** from 9th September 2024 to 13th September 2024.
- Successfully completed **Faculty Development Program (FDP)** on **"Entrepreneurship and Start-up Development"** from 2nd September 2024 to 6th September 2024.

- Attended **Workshop** on **Full stack Development by Pantech E-Learning** from 11th Dec 2023 to 10th Jan 2024.
- Successfully completed **Bootcamp Faculty Development Program (FDP)** on **"Big Data & Data Science"** from 9th September 2024 to 13th September 2024.



Mrs. Arundhati Walia
(Assistant Professor)



Ms. Shalu Tyagi
(Assistant Professor)

- Attended FDP on **"Machine Learning and its Applications"**, from 02nd September 2024 to 07th September 2024.
- Successfully completed **Bootcamp Faculty Development Program (FDP)** on **"Big Data & Data Science"** from 9th September 2024 to 13th September 2024.
- Served as **Reviewer at the Global AI Summit 2024**, organized by **Bennett University**, held from 4th September 2024 to 6th September 2024.

- Attended FDP on **"Entrepreneurship and Startup Development"**, held from 02nd September 2024 to 06th September 2024.
- Attended **Bootcamp FDP on "Big Data & Data Science"**, from 09th September 2024 to 13th September 2024.
- Participated in the AICTE-ATAL FDP on **"Smart Healthcare Systems: Enhancing Patient Care with IoT and AI"**, conducted at Amity University
- Presented the paper **"Enhancing Proactive Talent Management in Private Banking using ML-based Evaluation of Person-Organization Fit"** at the 4th IEEE - sponsored International Conference on Advancement in ECE.



Ms. Leena Chopra
(Assistant Professor)



Ms. Asra Mufti
(Assistant Professor)

- Attended ATAL FDP on **"Smart Healthcare Systems: Enhancing Patient Care with IoT and AI"**, organized by **Amity University**, from 02nd December 2024 to 07th December 2024.
- Attended FDP on **"Significance of Emerging Technologies & Intellectual Property Rights (IPR)"**, organized by **Mangalmay Institute**, from 16th December 2024 to 20th December 2024.
- Attended FDP on **"Entrepreneurship and Startup Development"**, from 02nd September 2024 to 06th September 2024.

- Attended FDP on **"Significance of Emerging Technologies & Intellectual Property Rights (IPR)"**, organized by **Mangalmay**, from 16th December 2024 to 20th December 2024.
- Attended Bootcamp FDP on **"Big Data & Data Science"**, from 09th September 2024 to 13th September 2024.
- Successfully completed course on **"Supervised Machine Learning and Classification"**, conducted from 01st December 2024 to 31st January 2025



Ms. Gunjan Tomar
(Assistant Professor)

Departmental Achievements

TECHNICAL CERTIFICATION HIGHLIGHTS

✔ More than **350 certifications** were earned by second and third-year students across multiple domains including **AI, Machine Learning, Python, and Cloud Computing**.

🌐 Students actively participated in national and international MOOCs hosted by platforms like **NPTEL, Coursera (IBM, Duke), AWS, Infosys, and MongoDB University**.

👤 Over 21 students completed **IBM's "Introduction to Artificial Intelligence"** course via Coursera, reinforcing the department's AI-driven learning path.

🏢 Hands-on skills were gained through internships and industrial training, notably:

- ▶ **50-day internships at NETCAMP in Web Development, Android & Network Management** (completed by 12 students in total).
- ▶ **Certifications from Simplilearn, SkillUp, and HP** on trending technologies like AI for Beginners (52 students participated).

🏆 Participation in competitive and innovation events like **Hack the Prompt, Binary Hacks, and Smart-Site Sprint** with outstanding student involvement.

INTERNSHIP HIGHLIGHTS – BRIDGING ACADEMIA AND INDUSTRY

The Department of CSE (AI & ML) continues to prioritize industry readiness by facilitating impactful internship opportunities for its students. **Over 126 second-year students** successfully completed a **30-day Artificial Intelligence internship with CODEC Technologies**. Additionally, **12 students** undertook a **50-day industrial training program with NETCAMP**, gaining hands-on experience in Web Development, Android with Core Java, and Network Management.

Additionally, three **third-year** students completed internships at **Interns Veda, Main Flow Services and Technologies, and Languify**, gaining valuable insights into emerging tech domains.

Final-year students secured internships at reputed organizations such as **Qmansys Infosolutions LLP (10+ students)** and **CodSoft (15+ students)**. Noteworthy placements included **DRDO, JP Morgan, HCL, MSME, and Prodigy Infotech**. Some students received prestigious paid offers, including **SYNCHRONIZED (₹34,000/month), DronaMaps Pvt. Ltd. (₹5,000/month), and COSMIC365/ZYKOON/Project Blaze (₹20,000 for 3 months)**, showcasing the department's dedication to bridging academic learning with real-world industry exposure.

"SURPASSING PREVIOUS RECORDS, STUDENTS HAVE ACHIEVED OVER 350 CERTIFICATIONS IN VARIOUS TECHNICAL DOMAINS THIS SEMESTER".

Departmental Activities

NCRTC - Ghaziabad

Industrial Visit

The Department of CSE (AI & ML) organized an industrial visit to **NCRTC, India's first AI-enabled automated train system** in Ghaziabad for final year students. They explored real-world applications of AI in transportation, such as predictive maintenance, real-time monitoring, and automation. **Mr. Virat Raj Saxena and Mrs. Shalu Tyagi** made this visit possible.



NCRTC Ghaziabad
on 23rd October 2024

01

02

Orientation Program 2024-25

Orientation

An Orientation Program 2024-25 was conducted to welcome **Second-year students** into the field of AI and ML. The event was graced by dignitaries including **Dr. B.C. Sharma, Shri H.G. Garg, Dr. R.K. Yadav,** and **Dr. Vinish Kumar.** Special thanks to **Mrs. Mahima Tayal** for organizing the program and to all dignitaries for their valuable guidance.

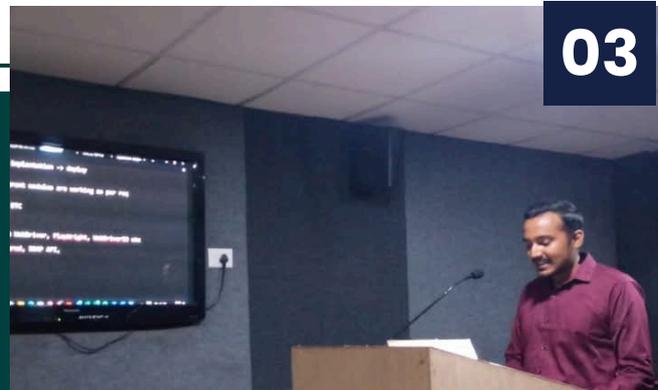


Dr. B.C. Sharma (Director, RKGIT)
on 18th September 2024

Introduction to Quality Assurance

Workshop

A workshop on "**Introduction to Quality Assurance**" with Java and Selenium was organized for **Third-year students.** We were privileged to have **Mr. Saransh Chaudhary,** Senior Software Engineer at **IRIS Technology,** as the speaker. He shared valuable insights on agile methodology and its integration with emerging technologies in the AI & ML domain. We extend our sincere thanks for this enriching session.



Mr. Saransh Chaudhary (Senior Software Engineer)
on 27th September 2024

03



MoU Signing
on 30th September 2024

MoU with Frontline Softech Pvt. Ltd.

Collaboration

The **Department of CSE (AI & ML)** signed a Memorandum of Understanding (MoU) with **Frontline Softech Pvt. Ltd.** to foster industry-academia collaboration and enhance learning for students. This partnership aims to provide opportunities such as **internships, workshops, expert sessions, and industrial visits.** It is a step towards equipping students with in-demand skills and real-world exposure in the field of AI and ML.

Departmental Activities

Inspiring Session by Mr. Vansh Bhardwaj

Alumni Talk

An Alumni Talk was organized for **Second-year students** in the D-Block Seminar Hall. The session featured **Mr. Vansh Bhardwaj**, an experienced **AI developer**, who inspired students to enhance their technical skills and prepare for the evolving demands of the IT and AI industries. The event was made possible through the efforts of **Dr. Vinish Kumar** and was smoothly coordinated by **Mrs. Shalu Tyagi**.



05

Mr. Vansh Bhardwaj (AI developer)
on 01st October 2024

06

MoU with SINCGRID

Collaboration

The **Department of CSE (AI & ML)**, has formed a valuable partnership with **SINCGRID** to enhance student learning. This collaboration offers opportunities such as **internships, workshops, and industrial visits**, providing practical industry exposure. It aims to equip students with the essential skills and knowledge needed to succeed in the fast-changing technology sector.



MoU Signing
on 18th October 2024

Inspiring Session by Mr. Raj Maurya

Alumni Talk

An engaging Alumni Talk was organized for **Second-year students**. The session featured **Mr. Raj Maurya**, an **AI/ML Engineer** at Motherson Technology Services Ltd and an alumnus of the **2020-24 batch**. He inspired students to sharpen their technical skills and stay ahead in the rapidly evolving IT and AI industries. The event was successfully led by **Dr. Vinish Kumar** and seamlessly coordinated by **Mrs. Mahima Tayal** under the **AI-Hacks Club**.



07

Mr. Raj Maurya (AI/ML Engineer)
on 22nd October 2024

08

Blogic Software Technology Pvt. Ltd.

Industrial Visit

An industrial visit to **Blogic Software Technology Pvt. Ltd., Noida**, was organized for **Second-year students**. The visit enriched their technical skills and provided practical exposure to software development processes and real-time applications that will help shape their future careers. Special appreciation goes to Dr. Vinish Kumar for leading this initiative, with **Mr. Virat Raj Saxena** and **Ms. Asra Mufti** serving as dedicated faculty coordinators.



Blogic Software Technology, Noida
on 14th November 2024

Departmental Activities

09

Brain Mentors Pvt. Ltd.

MoU



Brain Mentors Pvt. Ltd.
on 29th August 2024

The CSE (AI & ML) Department signed an MoU with Brain Mentors on 29th August 2024 to provide students with **industry-aligned training** and **placement support**. Led by founder **Amit Shrivastav**, Brain Mentors offers hands-on learning in development, data science, and interview preparation. This partnership aims to enhance students' technical skills and career readiness through expert-led sessions and real-world projects.



Hindustan Computers
Limited (HCL), Noida

10

An engaging industrial visit to **Hindustan Computers Limited (HCL), Noida**, was organized for **Third-year students**. They gained valuable insights into emerging tools, innovative solutions, and cutting-edge technologies, providing an excellent opportunity to connect academic knowledge with real-world industry practices. The visit was conducted under the expert guidance of **Dr. Vinish Kumar**.



Departmental Club Activities

Hack The Prompt

Ideathon

With a vision to promote innovation and hands-on learning, the Department of CSE (AI & ML) launched the **AI-Hacks Club** coordinated by **Mrs. Mahima Tayal (Faculty Coordinator)**. Led by student **president Himanshi Rajput** and **vice president Aayush Sharma**, the club focuses on empowering students through workshops, coding competitions, and hackathons in the field of AI and ML. Its flagship event, **Hack the Prompt**, witnessed enthusiastic participation and showcased technical brilliance, with **Team CodePool winning 1st place**, followed by **AI Hackers and Night Crackers in 2nd and 3rd positions**. The AI-Hacks Club aspires to become a vibrant hub of innovation, collaboration, and real-world problem-solving in Artificial Intelligence.



Hack The Prompt
22nd October 2024

Placements



**BATCH
2020-24**



Abhishek Gupta
Btech CSE (AI&ML)



Arpan Gupta
Btech CSE (AI&ML)



Gaurav Mishra
Btech CSE (AI&ML)



Mohd. Asif
Btech CSE (AI&ML)



Parvesh Kumar
Btech CSE (AI&ML)



Piyush Kumar
Btech CSE (AI&ML)



Raj Mourya
Btech CSE (AI&ML)

Student Results

VIIIth Semester Result 2023-24



Raj Maurya
85.88%



Prarthna Ojha
84.59%



Shipra Gupta
84.47%



Shubham Tripathi
83.76%



Rashi Sharma
83.41%



Atharv Singh
82.71

100% Result with 65% students Secured 75% and above marks.

Students Achievements

Newsletter Article Contest

CSI

We are proud to share that **Abhishek Chhonkar**, a **3rd Year student** of CSE (AI & ML), secured **1st position** in the **State-level Article Writing Competition** organized by the **Computer Society of India (CSI), Ghaziabad Chapter**. His insightful article titled **"Smart Prescriptions with AI: Less Medical Waste"** was officially published in the CSI newsletter magazine. This achievement is a testament to Abhishek's academic excellence and dedication to impactful writing. It also reflects the department's commitment to nurturing talent in both technical knowledge and scientific communication.



Abhishek Chhonkar- 3rd Year CSE (AI&ML)
on 09 November 2024

Group Discussion & AD Mad Show

RKGIT

We are delighted to announce that **Avnav Teotia** has brought laurels to the department through outstanding performances in various events. He was honored with the **Pronunciator Award** at the **Group Discussion** hosted by the **IEEE Student Branch, RKGIT Ghaziabad**, recognizing his eloquence and clarity of thought. Additionally, he secured **Second Position** in the **Group Discussion Competition** and **Second Position** in the **AD Mad Show Competition** during the **Annual Fest of RKGIT**. These achievements highlight Avnav's strong communication skills, creative flair, and confident stage presence.



Avnav Teotia - 3rd Year CSE (AI&ML)
on 09 October 2024

Taekwondo Championship

State

Nirankar Prasad, a **3rd-year student** of CSE (AI & ML), brought pride to the institute by winning the **Bronze Medal** at the **State Level Taekwondo Championship**. His achievement is a reflection of consistent effort, discipline, and passion for the sport, which he has balanced alongside a rigorous academic curriculum. Nirankar's accomplishment showcases his personal dedication and stands as a strong example of building a well-rounded profile during the engineering journey.



Nirankar Prasad - 3rd Year CSE (AI&ML)
on 18 August 2024

Academic Excellence through NPTEL Certifications

NPTEL Course	Student Name	Duration
Data Analytics with Python	Prasoon Gupta, Shreya Tyagi	12 weeks
Programming DSA/ DSA Using Python	Abhishek Dixit, Ayush Mishra, Ayush Sotiya, Dimple Sharma, Kunal Goel, Nishchal Bhardwaj, Shivani Nautiyal, Ujjawal Mittal, Vrinda Garg, Yuvraj Sharma, Yuvraj Singh	8 weeks
Design and Analysis of Algorithms	Rakesh Maurya, Suryansh Chaturvedi	8 weeks
Enhancing Soft Skills and Personality	Ajeet Singh, Shreya Tyagi	8 weeks
Emotional Intelligence	Shreya Tyagi, Vishnu Yadav	8 weeks

Departmental Clubs



AI INNOVATORS

President:
Kanishka Sharma
Vice President:
Kalpna Singh



AI INSIGHTS

President:
Krishna Agarwal
Vice President:
Nirankar Prasad



AI HACKS

President:
Abhishek Chonker
Vice President:
Gayatri bharti



SOCIAL MANIA

President:
Sakshi Sharma
Vice President:
Sujal Gupta



LENS AND REELS

President:
Aunav Teotia
Vice President:
Lakshay Pundir

Fun Fact about AI

- **AI once beat a world champion at Go** - a game with more moves than atoms in the universe!
- **Machine learning helps Netflix save \$1 billion a year** by predicting what you'll watch next.
- **AI can now generate realistic human faces** - of people who don't even exist!
- **AI is being trained to understand animal languages** - like decoding whale songs!
- **Some AI models have over 1 trillion parameters** - more than the number of stars in the Milky Way!

News

Revolutionizing AI: The Rise of Generative AI Models

Artificial Intelligence has reached a revolutionary milestone with the development of Generative AI models—deep learning algorithms capable of creating new content, including text, images, music, and code.

At the core of these models lies the **Transformer architecture**, introduced in 2017 by **Vaswani et al.** in their groundbreaking paper "**Attention is All You Need**".

Unlike previous models, Transformers use a mechanism called self-attention to weigh the importance of different parts of input data simultaneously. This enables models like **GPT-4 (Generative Pre-trained Transformer 4)** to understand context deeper and generate coherent, human-like text across diverse topics.

In image generation, diffusion models power state-of-the-art tools like DALL-E 2 and Stable Diffusion. These models learn to generate images by gradually removing noise from random data, effectively "painting" detailed, photorealistic visuals based on textual prompts.

Generative AI models are trained on massive datasets—GPT-4, for example, is trained on vast collections of internet text, while image models use datasets like LAION-5B, a huge open-source image-text pair dataset.

The applications are transformative in healthcare, generative AI accelerates drug discovery by designing novel molecules in software development, AI-powered code generators like GitHub Copilot help developers write efficient code faster, in entertainment virtual worlds music and art creates immersive virtual worlds, music, and art.

What fascinates me most is how generative AI is evolving from a tool into a creative partner, amplifying human potential and opening new frontiers in innovation.



Anubhav Gargmukh
2nd Year CSE (AI&ML)