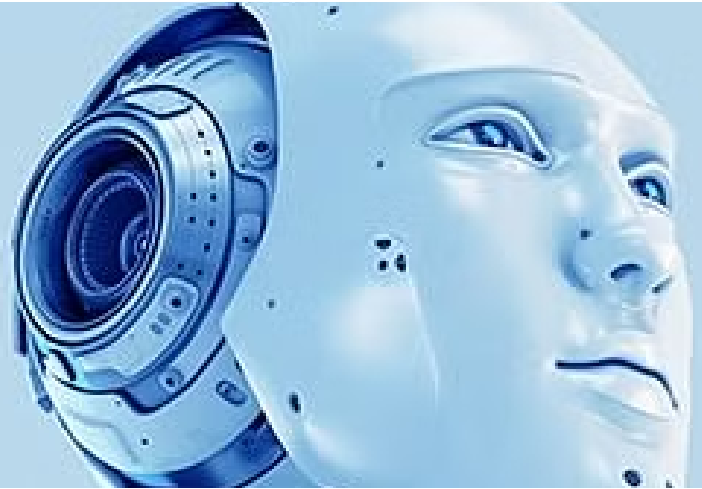




# AI INSIGHTS

NEWSLETTER OF **CSE (AI&ML) DEPARTMENT**  
**JAN-JUNE 2023 || ISSUE NO 1**

"THE FUTURE BELONGS TO THOSE WHO BELIEVE IN THE BEAUTY OF THEIR DREAMS."



## 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 a center of learning, to produce industry-ready, Research and values-based professionals in the field of AI&ML.

### Mission

**M1:-** To inculcate the latest technical knowledge in the field of AI&ML.

**M2:-** To demonstrate leadership skills in a multidisciplinary environment.

**M3:-** To develop professional ethics for sustainable development of the environment.

### Chief- Patrons

- Shri Dinesh Kumar Goel
- Shri Akshat Goel

### Editor

- Vansh Sharma
- Krishna Agarwal

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- Dr. B. C. Sharma
- Dr. Vinish Kumar

### Chief- Editors

- Mrs. Mahima Tayal
- Mr. Virat Raj Saxena

### Editorial Board

- Prarthna Ojha
- Aman Singh



I congratulate the Computer Science & Engineering (Artificial Intelligence & Machine Learning) department on the release of the first issue of their newsletter AI INSIGHTS! Due to unwavering dedication and teamwork, the department has experienced numerous outstanding successes in all areas. Your commitment to excellence has been truly amazing, from conducting ground-breaking research to creating an environment that is stimulating for learning.

Your successes not only highlight the depth of your knowledge but also the collaborative nature of the department. I have no doubt that this momentum will push your department's understanding and advancement in the areas of machine learning and artificial intelligence to new heights.



**Dr. B. C. Sharma**  
Director, RKGIT



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

I am thrilled to extend my heartfelt congratulations on the successful launch of the first edition of AI INSIGHTS. The dedication, creativity, and hard work that each of you has poured into this publication is truly commendable. My sincere appreciation goes to the Chief Editors, Editors, and the entire Editorial Board for their exceptional contributions in curating insightful content.

I also want to express my gratitude to all the contributors who have played a vital role in shaping this newsletter. Your efforts have resulted in a publication that highlights the depth of expertise within our department. Additionally, I would like to congratulate both the faculty members and students for their remarkable achievements and unwavering enthusiasm over the past six months. Your commitment exemplifies the spirit of excellence that our department stands for.

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# FACULTY ACHIEVEMENTS



- Published a research paper on "Speech Recognition Intelligence System for Desktop Voice Assistant by using AI and IoT" in the International Journal of Intelligent Systems and Applications in Engineering.
- Paper presented " Smart cities Monitoring using Internet of things: opportunities and challenges at the " 4th International Conference on ICESC-2023 Organized by HIT, Coimbatore, India ( IEEE Xplore ISBN 979-8-3503-0009-3)
- NPTEL certificate in "The Joy of Computing using Python" in 2023.
- Patents on "IoT-enabled pressure cooker to control the temperature using a cell phone" and "Haircut pattern detection using machine learning algorithm to identify deviation".
- FDP on 30 days Master Classroom Machine Learning by Pantech E-learning.
- FDP on Artificial Intelligence, Machine Learning, and Interdisciplinary Approach for Natural Language Processing by RIT Roorkee.
- FDP on Planning, Execution, and Evaluation of Project Work conducted at RKGIT by NITTR.
- FDP on Intellectual Property Rights by Institutions Innovation Council of India



**Dr. Vinish Kumar**  
Professor & HOD

- Research Paper " A Method for the Identification and Analysis of Stakeholders of an Information System using Fuzzy Topics" in ECB, Hungary. It is an Scopus indexed journal .
- Achieved the NPTEL certificate The Joy of Computing using Python in 2023.
- Patents on "A system for eliciting the ranking order of a large set of requirements under a fuzzy environment for the development of secure software" and "A system and method to book an appointment with a healthcare provider" in 2023
- FDP on Artificial Intelligence, Machine Learning, and Interdisciplinary Approach for Natural Language Processing by RIT Roorkee.
- FDP on Planning, Execution, and Evaluation of Project Work conducted at RKGIT by NITTR.
- Attended FDP on Inculcating Universal Human Values in Technical Education organized by AICTE New Delhi in 2023
- Attended Training on Intellectual property Rights by Institutions Innovation Council of India.



**Mr. Virat Raj Saxena**  
Assistant Professor

- Published Research Paper "Confide in Model with Delayed Verification for Message Handoff in VANETs " in ECB, Hungary. It is a Scopus-indexed journal.
- Achieved the NPTEL certificate "The joy of Computing using Python" in 2023.
- FDP on Artificial Intelligence, Machine Learning, and Interdisciplinary Approach for Natural Language Processing by RIT Roorkee.
- Two Days workshop on "Introduction to Embedded Systems and Robotics" by E-yantra.
- Attended FDP on Planning, Execution, and Evaluation of Project Work conducted at RKGIT by NITTR.
- Achieved Certificate on Intellectual property Rights by Institutions Innovation Council of India.
- 30 days Master Classroom Machine Learning by Pantech e-learning.



**Mr. Neeraj Kumar**  
Assistant Professor

- Research Paper "Identify fixed American Sign Language by Awareness of Convolutional Neural Network" in Scopus Index journal.
- Patent on "IoT-enabled pressure cooker to control the temperature using a cell phone".
- FDP on "Research Methodology Analysis Tools & Techniques" by TACW, Villupuram in 2023.
- 30 days Master Classroom on Machine Learning by Pantech e-learning.
- FDP on Artificial Intelligence, Machine Learning, and Interdisciplinary Approach for Natural Language Processing by RIT Roorkee.
- Teaching Pedagogy and outcomes Based Education system in NEP 2020.
- Two Days workshop on "Introduction to Embedded Systems and Robotics" by E-yantra.



**Mr. Vikas Gupta**  
Assistant Professor

# FACULTY ACHIEVEMENTS



- Paper entitled Filtering of Images, Phish links & Unsolicited "CONTENT FROM ONLINE SOCIAL NETWORK USER WALL" by IJET in 2023.
- A comprehensive exploration of AI chatbots with NEI applications, Security & Emerging Challenges.
- Attended FDP on Inculcating Universal Human Values in Technical Education
- Python and related emerging technologies.
- FDP on Planning, Execution and Evaluation of Project Work conducted at RKGIT by NITTR.



**Mr. Kaushal Kumar**  
Assistant Professor

- Published Research Paper on "Smart Business and Industrial Competitiveness are Drivers of AI" in ECB, Hungary. It is a Scopus-indexed journal.
- Achieved the NPTEL certificate The Joy of Computing using Python in 2023.
- Achieved Certificate on Intellectual property Rights by Institutions Innovation Council of India.
- Attended FDP on Inculcating Universal Human Values in Technical Education organized by AICTE New Delhi.
- Completed 5 days workshop cum Boot Camp on Advanced UAV for monitoring using Machine Learning.
- 30 days Master Classroom on Machine Learning by Pantech E-learning.
- FDP on Artificial Intelligence, Machine Learning, and Interdisciplinary Approach for Natural Language Processing by RIT Roorkee.
- Attended Two Days workshop on "Introduction to Embedded Systems and Robotics" by E-yantra.



**Ms. Mahima Tayal**  
Assistant Professor

# WORKSHOPS & GUEST LECTURES



## ROBOTICS & AUTOMATION WITH AI

The workshop conducted by NEXTUP Robotics was a resounding success. Engaging and informative, it was a valuable learning experience for the participants. The mentors fostered a positive learning environment, encouraging students to actively interact and discuss concepts during one-on-one sessions. Robotics and Automation with Artificial Intelligence offer a fascinating exploration of AI-based mechanisms in diverse fields. This workshop delved into the concept of Robotics, focusing on ROS implementation and its role in automating daily tasks, benefiting learners seeking to understand this evolving field.



**Dhirendra Kushwaha (Director)**  
NEXTUP ROBOTICS on 15th May 2023



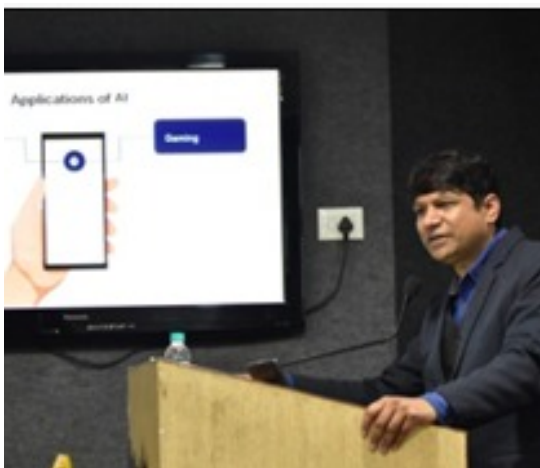
## MACHINE LEARNING USING PYTHON

Rohit Pahwa, an esteemed expert from DUCAT, brought a wealth of experience to the forefront as he led the engaging workshop on machine learning using Python. His understanding of the subject matter allowed participants to delve deep into the complexities of machine learning algorithms and techniques. He skillfully elucidated the key concepts, helping attendees understand the fundamental principles clearly. Rohit Pahwa delivered an exceptional workshop, guiding participants through Python's applications in machine learning. Students benefited from engaging in one-on-one conversations with mentors.



Rohit Pahwa (Manager)  
DUCAT on 31st March 2023

## ROLE OF AI&ML IN COMMUNICATION NETWORK



Krishna Kr. Singh Yadav  
Assistant Director ALTTC

Krishan Kumar Singh Yadav, Assistant Director Telecom at BSNL's ALTTC, lectured an enlightening lecture on the significance of AI and ML in communication networks. With his vast expertise, he shared practical examples of how AI-powered solutions are reshaping the telecommunications industry. His engaging delivery style and comprehensive knowledge made complex concepts easily understandable. The interactive sessions allowed students to have one-on-one conversations with him, where they could seek clarifications and gain valuable insights.

## OVERVIEW OF EMERGING TECHNOLOGIES

Dr Jagendra Singh, an Associate Professor from Bennett University, led the talk on emerging technologies with his vast expertise in the field. Attendees had the privilege of learning from an accomplished speaker, gaining valuable knowledge about the practical applications of these advancing technologies. The students were thoroughly engaged as he showcased the real-world impact of Emerging Technologies. Moreover, the interactions with the mentor created an enriching learning environment, allowing students to explore the subject matter.



Dr. Jagendra Singh (Associate professor)  
Bennet University on 31st May 2023



Visit to ALTTC- BSNL, GZB on 08th May 2023

## ALTTC- BSNL

Ghaziabad

The CSE (AI&ML) department of RKGIT embarked on a captivating industrial visit to ALTTC-BSNL, Ghaziabad. Our students obtained profound insights into the ever-advancing technologies under the benevolent guidance of Mr. Neeraj Kumar and Mr. Krishan Kumar Singh Yadav, revered mentors of the day. Students witnessed well-equipped model installations for various telecommunication systems and experienced modern teaching aids in our facilities.

## COCO- COLA, Moon Beverages

Greater Noida

The CSE (AI&ML) department of RKGIT ventured on an enlightening industrial visit to the prestigious Coca-Cola Company. Amidst the humming machinery and aroma of caramelized sweetness, students witnessed how cutting edge technologies optimize production processes and enhance quality control. Engaging with seasoned professionals, the visit offered valuable insights into how AI & ML revolutionize personalized marketing strategies, and customer service, elevating Coca-Cola's position as a global beverage leader.



Visit to COCO-COLA, Gr. Noida on 16th Jan 2023



Visit to APPWARS , Noida

## APPWARS

Noida

The CSE (AI&ML) department of RKGIT set out on an industrial visit to APPWARS Technology with a sense of curiosity and anticipation, The students embarked on this unique journey to gain first hand knowledge about the ground breaking innovations shaping the tech industry. The visit proved to be captivating as students witnessed interactive sessions on AI, Machine learning, and more. Delving into current industry trends and technologies, the visit provided an engaging and enlightening experience.



SHUBHAM TRIPATHI, IV year

## TECHKRITI 2023

### IIT KANPUR

Congratulations to Shubham Tripathi, a talented CSE (AI&ML) department student, for his outstanding achievements in TECHKRITI 2023! Securing top positions at the IIT Kanpur reflects your exceptional skills and hard work. Your success is an inspiration to all.

## IEEE INDIA COUNCIL

### BANGLORE

Hearty congratulations to Vansh Sharma, Student of CSE (AI&ML) for his exceptional achievements! He has been recognized for his outstanding skills and dedication with selections in both the prestigious IEEE India Council and the esteemed IEEE UP Section. These impressive accolades highlight Vansh Sharma's commitment to advancing in his field and demonstrate his impact within the respective communities.



VANSH SHARMA, IV year



Students in Drone Competition at MANIT Bhopal on 22nd Jan 2023

## IISF MANIT

### BHOPAL

These brilliant minds have been selected among the top 100 students for the prestigious Indian International Science Fest (IISF) held at MANIT, Bhopal. The National Level event serves as a testament to the unwavering hard work and dedication of these talented young minds.

## STATE LEVEL DRONE COMPETITION

### AKTU LUCKNOW

The CSE-(AI&ML) department of Raj Kumar Goel Institute of Technology (RKGIT) is beaming with pride as two of its exceptional students, Raj Maurya and Swabhiman Singh, achieved a momentous feat by securing the 2nd position at the AKTU State Level in the highly competitive Drone category held in Lucknow, Uttar Pradesh.



Raj Maurya & Swabhiman Singh at AKTU lucknow on 02nd March 2023

# STUDENT ACHIEVEMENTS



Shrang Tyagi at DTU, Delhi on 21st Jan 2023

## TECHZIBITION IIT ROORKEE

### Cognizance at DTU

The CSE-(AI&ML) students of RKGIT College proved their mettle once again by dominating COGNIZANCE 2023, organized by IIT Roorkee. With exceptional prowess and dedication, they secured both the 1st and 2nd positions at the event held on January 22, 2023, at the esteemed DTU.

## DRONE COMPETITION

### G.L. BAJAJ, NOIDA

Heartiest congratulations for Himanshi Rajput and Swabhiman Singh on their outstanding performance in the drone competition at GL Bajaj Institute of Technology on 16 may 2023, where they secured a remarkable 2nd position. Their relentless efforts have truly paid off, making us immensely proud.



Himanshi Rajput



Swabhiman Singh

## OPEN MIC

### IEEE SB RKGIT

On April 28, 2023, Mr. Pravesh Kumar and Mr. Aman Kumar, both brilliant students from the 3rd year of the CSE(AI&ML) department, achieved resounding success in the "Open Mic" event organized by IEEE SB RKGIT on 01 may 2023. Their exceptional talents shone brightly as they took center stage and captivated the audience during the event.



Aman Singh

Pravesh Kumar

## SRIJAN

### MRU, FARIDABAD

A momentous triumph unfolds as Shrang Tyagi and Tushank Tyagi both visionary and talented students of CSE(AI&ML) department secured 2nd position for their captivating innovation in AI&ML domain in the "SRIJAN" event held at Manav Rachna University. Their remarkable achievement shines brightly amidst the distinguished participants of the event.



Shrang Tyagi and Tushank Tyagi at MRU Faridabad



# STUDENT ACHIEVEMENTS



Tushank Tyagi, Akshat Agarwal, Shrang Tyagi,  
Astha Pundir, Himashi Rajput

## IDEATHON

### IEEE SB RKGIT

An astounding feat for six exceptional students from the department CSE(AI&ML) for achieving 1st and 2nd position in "IDEATHON" an event organized by IEEE - student branch of RKGIT Ghaziabad. This remarkable achievement stands as a testament to their unwavering dedication and prowess.

## PUSHPAK

### RKGGI

CSE(AI&ML) students, Swabhiman Singh, Avantika Rathour, Himanshi Rajput and Parth Garg, showcased their brilliance in creating and maneuvering drones through various challenges in a competition held by RKG group of Institutions namely "PUSHPAK" : The Drone competition



Swabhiman Singh, Avantika Rathour, Himanshi Rajput and Parth Garg in PUSHPAK RKGGI

## IDEATION 2023

### SPIC RKGIT

Equally deserving of praise for Krishna Agarwal, Ayush Sharma and Himanshi Rajput, 2nd-year students from the CSE(AI&ML) department, have secured a well-deserved Consolation Prize in IDEATION 2023. Their dedication, creativity, and hard work have earned them this recognition.

In an impressive display of innovation and ingenuity, the talented trio of Shrang Tyagi, Tushank Tyagi, and Apoorv Raj, students of the CSE(AI&ML) department in their 2nd year, have made their mark at IDEATION 2023. Their groundbreaking innovation captured the attention of judges, propelling them to the esteemed title of First Runners-Up in the entrepreneurial battle.



Krishna Agarwal, Ayush Sharma & Himanshi Rajput in IDEATION 2023 by SPIC RKGIT



Shrang Tyagi, Tushank Tyagi, and Apoorv Raj in IDEATION 2023 by SPIC RKGIT

# SOME DEPARTMENTAL ACHIEVEMENTS



## 100 COURSERA CERTIFICATES

We are thrilled to announce that 100 students from the CSE (AI&ML) department have successfully completed Coursera certificates. These dedicated individuals have expanded their knowledge and skills in the dynamic fields of Machine Learning and python, equipping themselves with the latest tools and techniques. Their commitment to continuous learning sets a shining example for the entire academic community.



## 250+ TECHNICAL CERTIFICATES

We are extremely proud to announce that the students of the CSE (AI&ML) department have been awarded an astonishing 250+ technical certificates. These exceptional individuals have demonstrated their unwavering dedication to expanding their knowledge and honing their skills in the fields of Artificial Intelligence and Machine Learning. These certificates not only showcase their proficiency but also highlight their commitment in staying at the forefront of technological advancements. We commend our students for their outstanding achievements and congratulations to all brilliant minds.



Through the CodeTanta platform, AI&ML students have embraced a world of learning opportunities, enabling them to acquire invaluable skills by delving into the diverse array of coding courses available. The students have honed their abilities in various programming languages and more than 75% students have excelled in logical Reasoning.

## 75+ AICTE VIRTUAL INTERNSHIPS

We are thrilled to share that our students have embraced learning opportunities and successfully completed over 75+ virtual internships in AI&ML through the AICTE-recognized program by EduSkills. These internships equipped our students with technical skills and industry-relevant knowledge. We commend their determination and commitment to gaining expertise in these rapidly growing fields. These accomplishments demonstrate their readiness to excel in the competitive world of technology. The department congratulates all our students for their remarkable achievements in these virtual internships.



## 50+ AWS ML CERTIFICATES

Over 50 students of CSE(AI&ML) department achieved AWS Machine Learning certificates through their diligent efforts. Our students have proven their proficiency in AWS services and their ability to leverage machine learning to drive innovation and solve complex challenges. We commend their hard work and determination in pursuing these certificates, as they strengthen their credentials and position themselves as leaders in the ever-evolving tech industry.

Brimming with excitement to unveil AI Innovators, our newly formed technical club that aims to revolutionize the way students perceive and interact with artificial intelligence. Our primary objective is to provide a dynamic platform where students from all backgrounds can access cutting-edge technical knowledge and explore the fascinating world of AI. The club is driven by a passion for a community of budding AI enthusiasts.




**VANSH SHARMA**  
President, AI

Introducing AI INNOVATORS, a technical club of our department, and "AI Insight," our cutting-edge magazine cum newsletter. Together, we explore AI's boundless potential and share the latest achievements, breakthroughs, and expert insights of AI&ML department. Join us in shaping an inclusive and responsible AI future!

## DEBATE COMPETITION

AI Innovators hosted a riveting debate competition that showcased the remarkable evolution of technology. Spectators marveled at the seamless fusion of technology and communication, The competition not only underscored AI's capacity for reasoning but also sparked intriguing discussions about the future role of AI in shaping human interaction and decision-making



## CAROUSEL OF SOCIAL MEDIA

"Carousel of Social Media" an event conducted by AI innovators showcasing a remarkable convergence of technology and student engagement. Envisioned as a platform to celebrate the accomplishments of our dynamic department, this event saw students enthusiastically embracing the digital realm to shower their positive feedback.



## POETRY COMPETITION

AI Innovators held a captivating poetry contest, where entrants ignited imaginations with their verses. Creativity flourished, accolades were won, and a vibrant literary legacy was created. Participants wove words into captivating tapestries of emotion and artistry, making the event an unforgettable experience.

# STAR PERFORMERS

## 3rd YEAR | V sem



**NANDANI KUMARI**  
PERCENTAGE : 79.05%

**ANMOL TIWARI**  
PERCENTAGE : 78.40%



**ARYAN SINGH**  
PERCENTAGE : 78.10%

## 2nd YEAR | III sem



**NANDANI SHARMA**  
PERCENTAGE : 83.15%

**AVANTIKA RATHOUR**  
PERCENTAGE : 81.10%



**SATYARTH SHARMA**  
PERCENTAGE : 79.05%

## STUDENT FEEDBACK



**Shrang tyagi** · You  
--Core Member of pushpak\_rkg  
now · 🌐

I am grateful to the CSE-(AI&ML) Department of Raj Kumar Goel Institute of Technology for the opportunity to pursue the AIML Virtual Internship Certification. This program, in association with [#AICTE](#) and [#Eduskill](#), provided me with invaluable knowledge in [#AWS](#) Cloud and [#ML](#). Thanks to the faculty and mentors for their guidance. I am confident that this certification will open new doors for my career in the tech industry. Thank you for the support and platform to excel in AI and ML [#AICTE](#) [#Internship](#) [CSE AIML](#) [RKGIT](#) [Vinish Kumar](#) [#opportunity](#) [#thankyou](#)



**Parth garg** · You  
Student at Raj Kumar Goel Institute of Technology...  
1m · 🌐

The department of CSE AIML organized a very fruitful industrial visit to AITTC, on 8 May, it was a wide-ranging experience, we got to the exposure of the industry first-hand and learn about the new advancements and emerging technology. The staff was very supportive and taught us a great deal [#tech](#) [#experience](#) [#industry\\_visit](#) [#opportunity](#)



with Advanced Level Telecom Training Center (ALTTC)