

INTELLIGENCE ARTIFICIELLE 2024-2025



DATAZOIC

Pioneering Tomorrow's Intelligence

VISION OF GENESIS AND FOUNDER



**Late Babu Banarasi Das Ji
(1912 – 1985)
Genesis
Ex Chief Minister
Govt. of Uttar Pradesh**

To provide an open opportunity to the young generation for evolving their core competencies and to build their career as world class professionals with broad based foundation, in-depth knowledge & versatile personality to meet the challenges of Global Economy.



**Dr. Akhilesh Das Gupta
Founder
MBA, LLB, Ph.D.
Ex-MP (Rajya Sabha)**

We not only make technocrats at BBD, we churn out citizens of the world, perfect in all respect, be it leadership, competence, confidence, communication, moral or knowledge.

***TO OUR REVERED AND HON'BLE FOUNDER CHAIRPERSON SIR
DR. AKHILESH DAS GUPTA***

**प्रेरकः सूचकश्चैव वाचको
दर्शकस्तथा ।**

**There is no greater tribute
to a guru than to maintain the
high standards he lived by;
Dr. Akhilesh Das Gupta's
legacy is one such that will
live on through his eminent
students and through the
beauty of his charitable work;
There was an intensity that
he brought to every movement
and thought he expressed;
An inspiring soul, a versatile
genius, a noble teacher whose
ideas will live forever with his
charm.**

शिक्षको बोधकश्चैव षडेते गुरवः स्मृताः ॥

MESSAGE FROM THE HON'BLE CHAIRPERSON

MRS. ALKA DAS GUPTA



Innovation is driven by passionate individuals who bring meaningful transformation to the world around them. In today's rapidly evolving global landscape, success is defined by our ability to adapt, lead, and innovate—especially in transformative fields like Artificial Intelligence.

The Department of Artificial Intelligence and Data Science at ADGIPS exemplifies this spirit by equipping students with the vision, skills, and confidence to meet the challenges of tomorrow. With a strong focus on innovation and conscious learning, the department is shaping individuals who are both competent and compassionate.

Our vibrant campus, supported by strong academic and sports infrastructure, is a reflection of our commitment to holistic development. We believe in nurturing well-rounded individuals who can thrive in a technology-driven world and contribute meaningfully to society.

In the digital age, knowledge of emerging technologies is essential—not just for engineers and scientists, but for professionals and leaders across all domains. At ADGIPS, we embrace this transformation and strive to deliver education aligned with global standards.

I am confident that *Intelligence Artificielle 2025* will continue to inspire innovation and intellectual excellence. My heartfelt congratulations to the editorial team for their continued efforts and success.

Warm regards,

Mrs. Alka Das Gupta

Hon'ble Chairperson

Babu Banarasi Das Group of Educational Institutions

MESSAGE FROM THE HON'BLE PRESIDENT SHRI VIRAJ SAGAR DAS



I am pleased to see the Department of Artificial Intelligence and Data Science at Dr. Akhilesh Das Gupta Institute of Professional Studies continuing to nurture innovation, creativity, and excellence. The department's commitment to encouraging students to engage in competitions, projects, and emerging technological platforms is truly commendable.

Intelligence Artificielle 2025 is a reflection of this vibrant spirit. The magazine presents a rich and diverse collection of articles, offering insights into the latest advancements, student achievements, and departmental initiatives. It is encouraging to see how thoughtfully the content has been curated, capturing both academic depth and creative expression.

Publications like this not only showcase the capabilities of our students and faculty but also promote a culture of continuous learning and collaboration. The initiative reflects the department's dedication to shaping future-ready professionals who are well-equipped to face the evolving challenges of the modern world.

I extend my heartfelt congratulations to the department and the editorial team for their efforts in bringing out this meaningful edition. May the magazine continue to inspire excellence and serve as a platform for innovation and expression.

Warm regards,

Shri Viraj Sagar Das

Hon'ble President

Babu Banarasi Das Group of Educational Institutions

MESSAGE FROM THE DESK OF DIRECTOR



Dear Readers,

It gives me immense pleasure to share my thoughts through Intelligence Artificielle 2024, the annual magazine of the Department of Artificial Intelligence and Data Science. This magazine reflects the vibrant academic culture, achievements, and creative pursuits of our students and faculty.

Today, ADGIPS stands proudly among the top institutions within the GGSIPU system. Our students consistently excel in academics, placements, and higher studies. Many of our graduates have secured positions in leading national and international organizations, while others are pursuing advanced education in reputed institutions abroad. The past few years have been a journey of steady growth and academic excellence.

In line with the dynamic global environment, ADGIPS is committed to delivering education that goes beyond technical training. We aim to instill confidence, character, and leadership qualities in our students, preparing them to thrive in diverse professional settings.

As part of the Babu Banarasi Das International Group of Educational Institutions, ADGIPS embraces modern infrastructure, innovative teaching methodologies, and quality assurance practices. We are continually adapting to the technological and economic changes shaping the world, ensuring that our students remain future-ready.

I commend the Department of Artificial Intelligence and Data Science for nurturing talent and creating opportunities for holistic development. I also congratulate the editorial team for bringing out this thoughtful and engaging publication.

May this magazine continue to inspire, inform, and ignite innovation in every reader.

Warm regards,

Prof. (Dr.) Niranjana Bhattacharyya

Director

MESSAGE FROM THE HEAD OF DEPARTMENT DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE



Dear Readers,

It is with great pride and pleasure that I present to you Intelligence Artificielle -2025, the annual magazine of the Department of Artificial Intelligence and Data Science. This publication serves as a reflection of the vibrant academic culture, innovative spirit, and dynamic talent nurtured within our department.

In today's fast-evolving technological landscape, Artificial Intelligence and Data Science are transforming industries and redefining problem-solving. Our department is committed to equipping students with not just theoretical knowledge, but also practical skills and ethical grounding to become responsible and impactful professionals.

The magazine highlights our students' academic achievements, technical explorations, creative expressions, and the continuous efforts of our dedicated faculty members. It also serves as a platform for sharing insights, experiences, and ideas that push the boundaries of learning.

I commend the editorial team and all contributors for their hard work and creativity in bringing this edition to life. I encourage readers to actively engage with the content, offer feedback, and continue contributing to this intellectual journey.

Let this magazine be a celebration of our progress and a motivation to strive for even greater excellence.

Warm regards,

Prof.(Dr.) Archana Kumar
Head of Department

DEPARTMENT OF ARTIFICIAL INTELLIGENCE & DATA SCIENCE

VISION

To enable the modern society with skilled engineers in the field of AI and Data Science, thereby bringing transparency and effectiveness in decision making for the overall welfare of mankind.

MISSION

M1. To produce competent AI and Data Science professionals to serve the needs of the society.

M2. To prepare industry ready engineers, trained in modern tools and techniques of AI and Data Science.

M3. To foster innovative research work in the area of AI and Data Science and allied areas, leading to quality decision making.

PEO

PEO1: Graduates shall thrive in the field of Artificial Intelligence & Data Science by utilizing their gained knowledge and abilities to build practical and viable engineering solutions.

PEO 2: Graduates shall be adaptable to new technologies and advances in order to achieve professional excellence.

PEO 3: Graduates shall be able to effectively manage resources and pursue their careers with integrity, ethics, and social responsibility.

“Pioneering Ideas: Research and Development at the Frontier of AI”

“Research is seeing what everybody else has seen and thinking what nobody else has thought.”— Albert Szent-Györgyi

Showcasing Excellence in Academics, Innovation, and Holistic Development

The Department of Artificial Intelligence and Data Science continues to uphold a strong culture of research and inquiry, reinforcing its role as a hub of innovation and academic excellence. Our commitment to pushing the frontiers of technology and knowledge has translated into impactful research contributions across various domains of AI, machine learning, data analytics, and interdisciplinary applications.

During the academic session 2024–25, the department achieved a significant milestone with more than 50 research papers published in reputed international journals and conferences. These publications reflect the dedication of our students and faculty to exploring emerging technologies, solving real-world problems, and contributing to the global research community.

Our research covers a broad spectrum—from deep learning, natural language processing, computer vision, and big data, to AI applications in healthcare, education, cybersecurity, and sustainability. These contributions not only enhance academic rigor but also open avenues for industry collaboration and societal impact.

We take immense pride in the scholarly accomplishments of our team and remain committed to fostering an environment that encourages critical thinking, innovation, and excellence in research.

This section presents a glimpse into the research achievements of the department and celebrates the spirit of inquiry that drives our academic mission forward.

Highlights of Student-led Research and Development Initiatives



Abstract - The evolution of natural language processing (NLP) has been significantly accelerated by the development of transformer models, which have set new standards in language understanding and generation tasks. This paper explores the applications and impact of AI-driven NLP systems, specifically transformer architectures, in various fields such as information retrieval, sentiment analysis, and conversational AI. By leveraging the capabilities of transformer models like BERT, GPT, and T5, this research aims to develop a framework that enables accurate language comprehension and generation, enhancing the interaction between machines and humans. This study focuses on real-time applications and examines the model's capabilities in handling complex language tasks. Through rigorous testing and evaluation, we aim to validate the effectiveness of transformer-based NLP models in real-world scenarios, paving the way for their broader adoption.

Key Words: Natural Language Processing, Transformer Models, BERT, GPT, Real-time Language Understanding, AI-driven NLP

Abbreviations -
NLP: Natural Language Processing
AI: Artificial Intelligence
BERT: Bidirectional Encoder Representations from Transformers
GPT: Generative Pretrained Transformer
AI: Artificial Intelligence

1. INTRODUCTION
In recent years, natural language processing (NLP) has undergone transformative changes, particularly with the advent of transformer models. These models have revolutionized NLP by enabling machines to understand and generate human-like text with unprecedented accuracy. This research focuses on the application of transformer models in various NLP tasks, such as language understanding, text generation, and conversational AI, aiming to enhance human-machine interaction and improve automated text processing.

Abstract
Deep learning is transforming healthcare by enabling advanced diagnostics, predictive analytics, and personalized treatment. However, challenges such as data inefficiency, overfitting, and high computational demands hinder its full potential. This research explores the use of data science techniques to optimize deep learning algorithms for healthcare applications. Key methods include: enhanced data preprocessing, feature engineering, and hyperparameter tuning. Techniques like Bayesian Optimization, Random Search, and transfer learning are applied to improve model accuracy and reduce computational costs. Experiments on healthcare datasets demonstrate improved performance in tasks like disease prediction and medical image analysis. These findings highlight the critical role of data science in refining deep learning models, paving the way for more efficient, scalable, and impactful AI solutions in healthcare.

1. INTRODUCTION
The application of artificial intelligence (AI) in healthcare has led to significant advancements, particularly in areas such as early disease detection, predictive analytics, and personalized care. Among AI techniques, deep learning stands out due to its ability to process complex medical data, including images, genomic information, and patient histories, with remarkable precision. Despite these successes, the implementation of deep learning in healthcare encounters notable challenges, including limited availability of labeled datasets, computational inefficiencies, overfitting risks, and concerns about model interpretability.

Data science provides innovative approaches to address these challenges, offering tools to optimize the performance of deep learning models. Techniques such as advanced data preprocessing, feature selection, and hyperparameter tuning have proven effective in mitigating algorithm inefficiencies. Additionally, methods like transfer learning and ensemble modeling have shown promise in enhancing insights related to data scarcity and computational demands.

This research focuses on leveraging data science methodologies to refine deep learning algorithms for healthcare applications. By examining tasks like medical image classification, disease prediction, and patient outcome forecasting, this study highlights the potential for creating reliable, scalable, and impactful AI solutions that address critical healthcare needs.

Abstract
Access to early diagnosis in rural India remains a critical challenge due to limited healthcare infrastructure, a shortage of trained professionals, and poor digital connectivity. This paper presents AI-driven, AI-powered diagnostic systems that can be deployed in rural areas using low-cost, portable devices. The system integrates AI-driven image analysis using convolutional neural networks (CNN), real-time voice analysis, and decision support systems. It enables early detection of common ailments such as skin diseases, respiratory issues, and diabetes, providing timely medical advice and referrals. The system is designed to be user-friendly, accessible to rural populations, and capable of handling limited internet connectivity. This research aims to bridge the healthcare gap in rural India by leveraging AI and digital technology.

Keywords: Artificial Intelligence, Early Diagnosis, Rural Healthcare, Telemedicine, Convolutional Neural Networks (CNN), AI-driven Healthcare, Voice Interface

1. Introduction
India's vast population presents unique challenges in healthcare, with a significant portion of the population residing in rural areas. The healthcare system in these regions is often under-resourced, leading to delayed medical attention and poor health outcomes. This research focuses on developing AI-driven diagnostic systems that can be deployed in rural areas, providing early medical diagnosis and improving healthcare access.

2. Problem Statement
The primary challenge is the lack of access to specialized medical services in rural areas. This is compounded by limited digital infrastructure and a shortage of trained healthcare professionals. The research aims to address these challenges by developing a portable, AI-driven diagnostic system that can be used in rural settings.

3. Methodology
The methodology involves the development of an AI-driven diagnostic system. This includes the collection of medical data from rural areas, the development of AI models for image and voice analysis, and the integration of these models into a portable diagnostic device. The system is designed to be user-friendly and capable of handling limited internet connectivity.

4. Results and Discussion
The results of the study show that the AI-driven diagnostic system is capable of accurately detecting common ailments in rural areas. The system is user-friendly and can be used by individuals with limited digital literacy. The research highlights the potential of AI-driven diagnostic systems to improve healthcare access in rural India.

5. Conclusion
The research demonstrates the effectiveness of AI-driven diagnostic systems in providing early medical diagnosis in rural India. The system is portable, user-friendly, and capable of handling limited internet connectivity. This research highlights the potential of AI-driven diagnostic systems to improve healthcare access in rural India.

Abstract
Artificial intelligence revolutionizes industries through automation, data analysis, and personalized services. Yet its rapid adoption raises critical ethical concerns. Biased algorithms that discriminate, privacy violations from mass data collection, workforce displacement, and dangerous military applications. Addressing these challenges requires proactive measures - developing robust systems, strengthening data protections, establishing legal frameworks, training workers, and regulating autonomous weapons. Only through responsible development and multi-stakeholder collaboration can we harness AI's benefits while safeguarding human rights and societal well-being.

1. Introduction
Artificial intelligence has evolved from science fiction to transformative reality, powering innovations from virtual assistants to autonomous vehicles. The AI market is projected to reach \$1.8 trillion by 2030.

2. Bias and Discrimination in AI Systems
AI systems learn from data—and if that data reflects historical or societal biases, the AI will perpetuate or even amplify them. This creates unfair outcomes, particularly for marginalized groups. The problem of algorithmic bias has become increasingly apparent as AI systems are deployed in high-stakes domains like hiring, lending, and criminal justice.

3. Privacy Concerns
AI's power to analyze vast amounts of data raises significant privacy concerns. Mass data collection and analysis can lead to surveillance, discrimination, and the erosion of personal freedoms. Ensuring data privacy and security is crucial for maintaining public trust and protecting individual rights.

4. Workforce Displacement
The automation of tasks previously performed by humans raises concerns about job displacement and economic inequality. While AI creates new jobs, it also replaces existing ones, particularly in manufacturing and administrative roles. Addressing this challenge requires proactive measures to retrain workers and create new job opportunities.

5. Military Applications
The development of autonomous weapons systems raises ethical concerns about the use of AI in warfare. These systems could lead to increased casualties, loss of human control, and the escalation of conflicts. International law and ethical guidelines must be established to regulate the use of AI in military applications.

Abstract - The exponential expansion of machine learning (ML) applications in a variety of fields has raised concerns about the privacy of user data. Strong privacy-preserving methods must be developed because sensitive data used in model training may unintentionally be revealed. Using the knowledge of data anonymization, differential privacy, federated learning, homomorphic encryption, and secure multi-party computation, this survey offers a thorough summary of the privacy-preserving techniques currently used in machine learning. We examine these methods, advantages, drawbacks, and potential uses. In order to guarantee privacy compliance in ML-driven systems, the paper also looks at future obstacles, unresolved research issues, and necessary future paths.

Keywords: Homomorphic encryption, federated learning, machine learning, privacy preservation, differential privacy, and data.

Abstract
The use of Artificial Intelligence (AI) has been transforming the world of health care by enhancing the methods of diagnosis and treatment, as well as patient care services. AI technologies are being applied to medical imaging, drug development, predictive analytics, and personalized medicine. This paper aims to explore the multifaceted impacts of AI in healthcare, including its applications, advantages, challenges, ethical implications, and prospects for the future. The study seeks to investigate how AI technology is transforming diagnosis and management in the health care system while trying to explore the risks and ethical issues in its implementation. The findings underscore the importance of AI in accelerating medical care, streamlining disease diagnosis, and dissolving insurance-related barriers. It also analyzes practical case studies, policy issues, and regulatory efforts of AI in modern caregiving systems. The emphasis of the conclusion is on the interdisciplinary nature of AI technology, its ethical implications, and its potential to revolutionize health care.

Keywords: Artificial Intelligence, Healthcare, Diagnostic Assistance, Treatment Personalization, Data Privacy, Ethical Considerations

Abstract - Neurodivergent students with conditions, such as autism spectrum disorder, attention deficit hyperactivity disorder, dyslexia, and other cognitive differences, often face unique challenges in traditional learning environments. Augmented Reality technology holds immense potential to bridge these gaps by enabling personalized, immersive educational experiences tailored to the specific needs of individual learners. This study explores the transformative impact of AR in personalized learning environments for neurodivergent students, examining their benefits, associated challenges, and future prospects. It also presents case studies, expert insights, and the latest technological advancements in AR. Furthermore, this paper provides a comprehensive overview of modern frameworks, neurodevelopmental theories, and cutting-edge developments in AR to emphasize its groundbreaking impact on special education. By harnessing the power of AR, educators can create engaging, multisensory learning environments that cater to the diverse needs of neurodivergent learners, empowering them to thrive academically and socially.

Keywords: Augmented Reality, Personalized Education, Neurodivergent Students, ASD, ADHD, Dyslexia.

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Keywords: Augmented Reality, Personalized Education, Neurodivergent Students, ASD, ADHD, Dyslexia.

Forging the Future: Student Triumphs in Hackathons and Technical Events

"Don't wait for opportunity. Create it."
— George Bernard Shaw

The Department of Artificial Intelligence and Data Science takes immense pride in nurturing a generation of innovators who continually push the boundaries of creativity and technology. Our students have actively participated in a wide array of technical events—including hackathons, project expos, coding competitions, paper presentations, and various inter-collegiate tech forums—both on campus and at prestigious institutions across the country.

These platforms offer far more than competition; they foster collaboration, real-world problem solving, and a powerful blend of academic learning with hands-on application. Our students have embraced these opportunities to develop smart solutions, engage in rapid prototyping, and explore cutting-edge applications of AI and Data Science.

Participation in hackathons, in particular, has empowered students to work under pressure, collaborate across disciplines, and develop functional prototypes addressing real-world challenges—from safety devices to socially impactful AI models. These experiences not only enhance their technical acumen but also build confidence, leadership, and entrepreneurial thinking.

Whether it's showcasing a Smart E-Cycle, securing top ranks at national hackathons, or presenting AI-powered innovations, our students continue to raise the bar and reflect the department's vision of experiential, innovation-led learning.

This section is a tribute to their dedication, curiosity, and pursuit of excellence—proof that when talent meets opportunity, remarkable things happen.

Smart E-Cycle: A Cross-Departmental Innovation at Utkarsh'24

AI&DS students, in collaboration with final-year ECE students, proudly showcased their innovative Smart E-Cycle at the Technical Exhibition during Utkarsh'24 at ADGIPS. The project, a result of excellent teamwork and technical creativity, was presented before the Director and other dignitaries. It received high appreciation and an exciting offer for future collaboration and startup incubation. This interdisciplinary effort reflected the students' commitment to practical innovation and real-world application. The event served as a great platform for showcasing talent, fostering entrepreneurship, and encouraging further innovation within the department and across the institution.



Participation in 'Beyond the Gantt Charts' at NorthCap University

Students from the Department of AI&DS participated in the one-day event titled 'Beyond the Gantt Charts: Building Moral Project Management' held at NorthCap University, Gurugram, on August 20, 2024. The event offered valuable insights into the ethical aspects of project management, emphasizing the role of moral integrity and ethical leadership in professional success. Through expert sessions and interactive discussions, participants gained a deeper understanding of values-driven project execution. It was an enriching experience that broadened the students' perspective on responsible decision-making in the ever-evolving world of technology and management.



Content Lead at Technorax V10.0 – IEEE ADGIPS Tech Fest

It was a proud moment to serve as the Content Lead for Technorax V10.0, the flagship tech fest of IEEE ADGIPS, held on October 14–15, 2024. Celebrating its milestone 10th edition, the two-day event was a vibrant showcase of innovation, learning, and technological excellence. The fest brought together brilliant minds from various domains, fostering a spirit of collaboration and creativity. Contributing to the event's success as part of the organizing team was an enriching experience, reinforcing leadership, teamwork, and communication skills in a dynamic and high-energy environment.



Top 3 Position at Yuvamanthan Hackathon 2024 – Hansraj College, Delhi



We are proud to share that our team secured a Top 3 position at the Yuvamanthan Hackathon 2024, held at Hansraj College on August 22, 2024. The team comprised Mohd Farhan Manzer from the Department of AI&DS, along with his peers from the AIML branch. Competing among some of the brightest young minds, the team showcased strong problem-solving skills and innovation through their impactful project. Their achievement reflects the spirit of collaboration, interdisciplinary learning, and the department's emphasis on hands-on experience in addressing real-world challenges.

SMART INDIA HACKATHON

Date of Event: 7th & 10th September 2024

The Smart India Hackathon (SIH) 2024 was successfully organized at Dr. Akhilesh Das Gupta Institute of Professional Studies (ADGIPS) on 7th and 10th September 2024. The event aimed to foster innovation and problem-solving skills among students by encouraging them to design and present solutions for real-world challenges.

The mentoring round held on 7th September gave participants the opportunity to refine their ideas with expert guidance, while the judging round on 10th September allowed them to showcase their creativity, teamwork, and technical expertise before panel of esteemed judges.

After rigorous evaluation, 6 teams were shortlisted from department of Artificial Intelligence and Data Science to advance to the next stage of SIH 2024. The event not only highlighted the talent and determination of students but also reflected the institute's commitment to nurturing future innovators and entrepreneurs.

Dr. AKHILESH DAS GUPTA INSTITUTE OF PROFESSIONAL STUDIES
(Formerly ADGIPM)
FC-26, SHASTRI PARK, NEW DELHI.
DIR/Gen-Admin/2024-25 September 13, 2024

Results of Smart India Hackathon (SIH) 2024 – Announcement of Selected and Waitlisted Teams

I would like to bring to your notice that our institution successfully organized the Smart India Hackathon (SIH) 2024 in our college on 7th and 10th, Sept.24. The mentoring round took place on 7th September 2024, followed by the judging round, which was held on 10th September 2024.

I am pleased to inform you that after careful evaluation by our esteemed judges, a total of 45 teams have been selected to proceed to the next stage of the competition. Additionally, 5 teams have been placed on the waitlist in case any vacancies arise. 45 Selected teams are as follows:

Serial No.	Team Name	Team Leader
1	Team Rocket	Revanta Birwas
2	Growth Hackers	Mohd Farhan Manzer
3	Cheeta united	Pradipta shanu
4	Nadaan Parindey	Chirag Bansal
5	Cookie Byte	Shriyansh Saxena
6	Coding Samurai	Sagar Kr. Jha
7	EthosCare Solutions	Rahul Sharma
8	Codecrusaders	Jaival Bhatia
9	Nerd Herd	Arpit Chaudhary
10	THE ENCIPIER	Muskan singh
11	Robogyan	Vidhi Gupta
12	Code crusaders	Saurabh Dhingra
13	Vedanta	Priyanshu Pandey, Prof. (Dr) Niranjan K.
14	NoName	Jayam Shrivastava, Assistant Director, ADGIPS
15	Electromech	Anjali Nagpal, FC-26, Shastri Park, New
16	Bharitiya Udayan	Aditya Jain
17	Innovative components	Sahil

TEAM ROCKET



TEAM INNO-MINDS

TEAM GROWTH HACKERS



Teams Shortlisted from AI & DS branch:

- Team Rocket
- Growth Hacker
- Code crusaders
- Nadaan parindey
- Bharitiya Udayan
- 101 Devs

DataVerse - The Data Analytics Event

Date of Event: 7th September 2024

Successfully participated in **DataVerse - The Data Analytics Event**, held under InnovateX'24, organized by eCell NSUT on 7th September 2024.

Team Insight Analyst : Jyoti Rana, Kasak & Madhav Maheshwari

Team Data_Doctors: Priyanshu Gupta & Lokesh Kumar Arya

This event involves following rounds:

Round 1: Quiz on Data Analysis and Sustainable Development

- This round assess participants' knowledge of data analysis techniques, statistics, and sustainable development concepts.

Round 2: Data Cleaning & Objective Quiz

- The task is to clean the data and prepare it for analysis.

Round 3: Boardroom Simulation & Presentation

- Analyze the cleaned dataset provided in the previous round to predict outcomes or results.

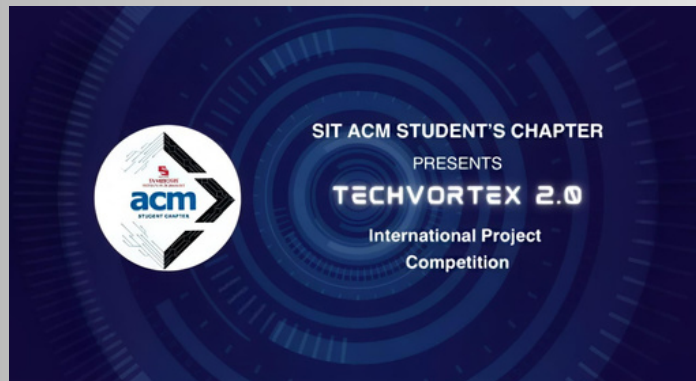
Though we couldn't make it to the final round 3, it was a memorable event.



"Where data speaks, innovation listens."

TechVortex 2.0- An International Project Competition

Date of Event: 26th September 2024



Participated as **Team Data_Doctors** in the TechVortex 2.0 - An International Project Competition organized by the Symbiosis Institute of Technology (SIT), Pune.

Team Name: Data_Doctors

Team Members: Priyanshu Gupta, Lokesh Kumar Arya, Kasak, Jyoti Rana

The Competition consist of 3 rounds as follows:

- **Round 1: Submission Round**

- We submitted our project idea for the screening process.

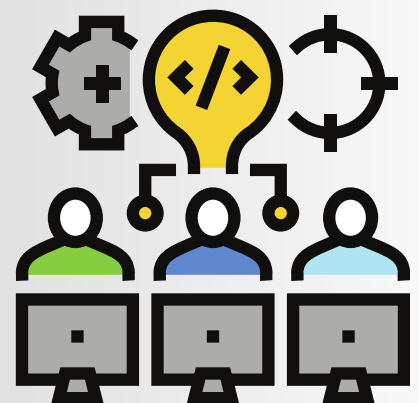
- **Round 2: Screening Round**

- Our team was selected for the next round.

- **Round 3: Offline/Online Presentation Round**

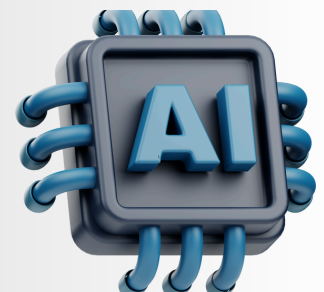
- We present our project idea online through google meet to the evaluator.

Though we pitch our idea but it lacks some points that are pointed out by evaluator and encourage us to think on how to overcome that obstacles



brAIInwave Hackathon

Date of Event: 25-26th October 2024

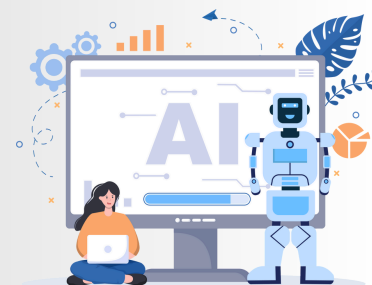


The highly anticipated **brAIInwave Hackathon**, hosted by **AIMS-DTU**, took place from **October 25 to October 26 2025**, challenging participants in a thrilling 30-hour sprint of AI innovation. This event brought together over 100+ teams, competing to develop groundbreaking solutions in fields like Medicine, Finance, Education, and Defense, all using the power of Artificial Intelligence.

Our team, **101 Devs** is represented by **Ansh Kumar, Himanshu Shukla, and Ronit Kumar** from **Dr. Akhilesh Das Gupta Institute of Professional Studies**, along with **Gourav Tyagi** from **AKTU**.

We developed **MentAI**, an innovative platform connecting therapists and clients through secure video calls and messaging. This platform allows clients to easily book sessions, make payments via cryptocurrency or cards, and even consult an AI chatbot for preliminary questions regarding their mental health.

The hackathon provided a unique experience with expert mentorship from industry professionals and services, and a shared passion for AI-driven solutions. Despite the intense 30-hour rush, we walked away with more than just knowledge—we earned valuable swag and memories that will last a lifetime.



GEEKS FOR GEEKS

Date of Event: 19th October 2024

GeeksforGeeks successfully concluded **Hackfest 2024**, its annual hackathon, on **19th October 2024** at the Delhi headquarters. The event attracted passionate developers, innovators, and problem-solvers from across the country, creating an atmosphere filled with energy and creativity.

Participants collaborated on diverse projects spanning AI, sustainability, education, and healthcare, turning ideas into prototypes under intense deadlines. With expert mentorship from GeeksforGeeks, the hackathon became not just a competition but also a platform for learning teamwork, design thinking, and effective pitching.

The winners earned prizes, internships, and recognition, while every participant gained invaluable experience and inspiration. Hackfest 2024 truly celebrated innovation, collaboration, and the limitless spirit of technology.



GeeksforGeeks



Hackfest 2024 proved—when passion meets guidance, innovation happens.

Projects Exhibition in Technorax 10.0 by IEEE ADGIPS



Date of Event: 15th October 2024

The much-anticipated **Technorax 10.0**, organized in collaboration with **IEEE ADGIPS**, recently concluded with a spectacular Projects Exhibition. The event served as a dynamic platform for students to present their innovative ideas, blending technical prowess with creativity.

From cutting-edge software solutions to impactful hardware prototypes, the exhibition highlighted the talent, curiosity, and problem-solving skills of budding engineers. Students had the opportunity to interact with peers, faculty, and industry mentors, receiving valuable feedback and exposure to real-world perspectives.

Technorax 10.0 not only celebrated student innovation but also encouraged collaboration and knowledge sharing, leaving behind inspiration for future editions to be even bigger and bolder.



S.No.	Project Name	Student Name	Year	Date (Presented)
1	Virtual Desktop Assistant	Moksh Jain Amish Kumar Sehaj Vij	2 nd year	15.10.24
2	Chatbot	Harshit Rathore Mohit Daundiyal	2 nd year	15.10.24
3	Kishaan Seva	Rakshit Dabral Aman Singh Jaival, Abhigayn Divya, yash	3 rd year	15.10.24
4	Research On Perfect Numbers	Mayank Garg	2 nd year	15.10.24



Innovative Entrepreneurship at College Fest



Date of Event: 14th October 2024

In a remarkable display of creativity and entrepreneurial spirit, six students—**Tanish Jain, Harsh Pandey, Md Shazeed, Gaurav Singh, Yagya Suri, and Dhruv**—successfully participated in the college fest held on **14th October 2024**.

As part of their initiative, they set up an innovative stall titled **Spin & Drink**, which attracted a large number of visitors throughout the three-day event.

The concept was simple yet engaging: participants would spin a wheel, and based on the outcome, they would win different types of soft drinks as prizes. This interactive and entertaining setup not only drew enthusiastic crowds but also generated substantial profits, showcasing their business acumen and teamwork. Their venture stood out as a prime example of practical application of entrepreneurial skills and was widely appreciated by faculty and students alike.



Faculty Development Program

Date of Event: 19.08.2024 - 23.08.2024



The Faculty Development Program (FDP) on "Research Methodologies for Science, Management, and Engineering" aimed to equip participants with essential skills and knowledge required for conducting high-quality research across various disciplines.

The objective was to:

- Introduce participants to advanced research methodologies.
- Enhance their understanding of research design, data collection, analysis techniques, and hypothesis testing.
- Familiarize them with modern tools and software for data analysis and literature review.
- Encourage interdisciplinary research and project formulation aligned with societal needs.
- Develop competence in using statistical software like SPSS, conducting literature reviews, and applying intellectual property rights (IPR) concepts.

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One Week Online Faculty Development Program on
"Research Methodologies for Science, Management and Engineering (ICT-44)"
FROM 19.08.2024 TO 23.08.2024
ORGANIZED BY
Department of Artificial Intelligence and Data Science
in Association with
Department of Rural Development , NITTTR Chandigarh

**Convener :**
Prof. (Dr.) Archana Kumar
Head of Department


#ShapingGenerations

**Co-ordinator :**
Mr. Ritesh Kumar
Assistant Professor

Awareness Program on AICTE IDEA Lab

Date of Events : August 27, 2024 - August 29, 2024



Location: Deenbandhu Chhotu Ram University of Science and Technology (DCRUST), Murthal

The primary objectives of the visit were to:

1. Enhance Practical Knowledge: Expose students to the practical applications of artificial intelligence and data science.
2. Familiarize with AICTE Idea Lab: Provide insight into the resources, facilities, and opportunities available in the AICTE Idea Lab.
3. Encourage Innovation: Inspire students to engage in innovative projects and understand the importance of AI and data science in modern technology.



Indigenous 5G Test Bed O&M Project for IoT Setup

Date of Event: 27th September 2024



Location: **Bharti School of Telecommunication Technology and Management at Indian Institute of Technology (IIT) Delhi**

The primary objective of the industrial visit was to:

- Understand the 5G Test Bed infrastructure and its potential for IoT applications.
- Gain insights into the indigenous development and maintenance of 5G technology.
- Explore how 5G technology can be integrated into IoT ecosystems to facilitate smart devices, automation, and data analytics.
- Bridge the theoretical knowledge acquired in the classroom with practical, hands on industry experience.



Industrial Visit: Drone Innovation Lab



Date of Event: 23th October 2024

On **23rd October 2024**, students visited the **Drone Innovation Lab** at the Indraprastha Institute of Information Technology, Delhi (**IIIT-Delhi**). The visit offered a unique opportunity to explore the cutting-edge world of drone technology and applications.

During the session, students gained insights into the design, mechanics, and real-world usage of drones in sectors like agriculture, disaster management, defense, and logistics. The lab showcased advanced prototypes and research projects, sparking curiosity and discussions about the future of unmanned aerial systems.

The **industrial visit** proved to be highly enriching, combining practical exposure with academic learning, and left students inspired to think innovatively about the possibilities of drone technology.



Industrial Visit: Network Bulls, Gurugram



Date of Event: 21ST APRIL 2025

The Department of Artificial Intelligence and Data Science organized an industrial visit to Network Bulls, a renowned Cisco training center, on 21st April 2025. The objective was to provide students with practical exposure to real-world networking infrastructure and its significance in AI and Data Science applications.

The visit began with a welcome session and orientation on networking fundamentals and their integration with cloud computing and AI systems. Students toured one of India's largest Cisco labs, witnessing live setups of routers, switches, and firewalls, along with demonstrations on how networking supports real-time data transfer and AI model deployment.

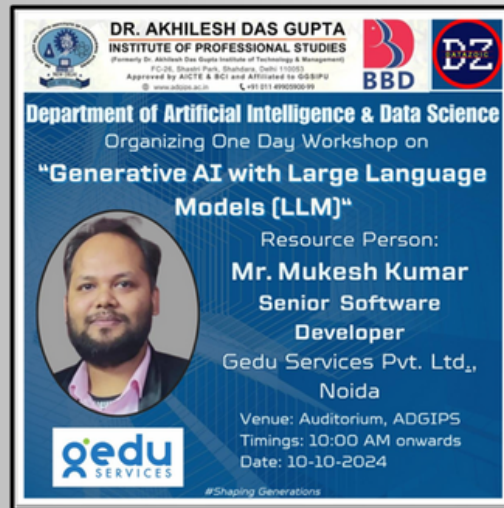
A technical workshop introduced students to IP addressing, distributed computing, and IoT-based AI applications. The visit concluded with an interactive Q&A session with industry experts, who shared career advice and insights on combining network engineering with AI/ML for enhanced system performance.

Learning Outcome:

Students gained valuable hands-on experience and a better understanding of how networking underpins AI-driven architectures. The visit sparked interest in pursuing network certifications to complement their AI & DS skill set.



Generative AI with Large Language Models (LLM)



Date of Event: 10th October 2024

The **workshop** aimed to provide in-depth knowledge about the rapidly evolving field of Generative AI, focusing on the capabilities and applications of Large Language Models (LLM), such as ChatGPT and other transformative AI technologies.

The event commenced at 10:00 AM in the college auditorium, with Mr. Mukesh Kumar, Senior Software Developer at Gedu Services Pvt. Ltd., Noida, serving as the resource person for the workshop. Mr. Kumar is a well-regarded expert in AI and machine learning, and his deep understanding of large-scale models made him the ideal guide for this session.



Effective Technical Writing for Research



Date of Event: 23rd January 2025

The Department of Artificial Intelligence & Data Science organized a one-day workshop on "Effective Technical Writing for Research", aimed at enhancing the academic writing skills of students and faculty.

The session was conducted by Dr. Rajender Kumar, Associate Professor, Bhagat Phool Singh Mahila Vishwavidyalaya, Khanpur, Sonapat. He shared valuable insights on research paper structuring, citation styles, and common writing challenges.

The workshop benefitted both students and faculty members by improving their understanding of professional research documentation and fostering a strong foundation in technical communication.



Expert Lecture on “Plant Diseases Prediction Using AI and ML”

Date of Event: 7th APRIL 2025



The Department of Artificial Intelligence and Data Science organized an expert lecture on “Plant Diseases Prediction Using AI and ML” to explore the intersection of technology and agriculture. The session was delivered by Dr. Anuradha Chug, Associate Professor, USICT, GGSIPU, Delhi. It aimed to showcase how AI and machine learning can revolutionize plant health monitoring and disease prediction.

The lecture introduced students to the fundamentals of AI and ML, common plant diseases, and traditional versus modern detection methods. Dr. Chug highlighted how algorithms like Decision Trees, Random Forest, Neural Networks, and CNNs enhance prediction accuracy, especially in image-based diagnostics.

A practical demonstration followed, using Python, TensorFlow, and OpenCV, where students observed the process of data collection, model training, and real-time disease detection using plant images.

An engaging Q&A session allowed students to discuss model performance, data sourcing, and the broader impact of AI in agriculture.



Expert Lecture on “Opportunistic Networks: A Communication Framework for Remote Regions”



Date of Event: 17th APRIL 2025

The department of Artificial Intelligence and Data Science organized an expert lecture on “Opportunistic Networks”. The primary objective of the expert lecture was to introduce students and faculty to the emerging concept of Opportunistic Networks (oppnets) and to explore its role as a novel communication paradigm for environments with limited or no infrastructure, such as remote or disaster-affected regions. Dr. Seema Jangra, Assistant Professor, Indraprastha College for Women, University of Delhi, Delhi was the speaker.

She emphasized the importance of innovative, flexible, and intelligent solutions to connect the unconnected, resonating deeply with the department’s mission to blend technology with social relevance.

The session sparked interest in exploring unconventional networking models for socially impactful applications.



Extra Curricular Events

QUIZ Competition

Date of Event: 14th October 2024



The **Programming Quiz Competition** was an engaging and fast-paced MCQ competition designed to test the participants' knowledge across various subjects. The event was well-attended, with students actively participating and demonstrating their quick-wittedness and problem-solving abilities.

Event Highlights:

- Individual Participation: The quiz required participants to join individually, making it a highly competitive event.
- Online Format: Participants used smartphones and stable internet connections to take part in the quiz, creating a seamless and accessible experience for all.
- Prizes: E-Certificates to all the participants

Winners:

- 1st Place: Govind (AI&DS) – 2nd Year
- 2nd Place: Ankit Mishra (AI&DS) – 1st Year
- 3rd Place: Saksham Madaan (AI&DS) – 1st Year



TechQuest: Decode & Dominate

Date of Event: 15th October 2024



TechQuest: Decode & Dominate was an exciting event aimed at testing the participant's knowledge of Python, Machine Learning, and Data Science. The event attracted numerous students eager to showcase their skills and engage in a friendly yet competitive atmosphere.

The event was structured into three unique rounds, each designed to evaluate different technical skills:

- ❖ In Round 1, participants tackled a crossword puzzle based on fundamental Python concepts, including data types, functions, loops, and libraries. This round tested their foundational Python knowledge while challenging them to think quickly under pressure.
- ❖ Round 2 shifted focus to machine learning, where participants faced a word search with clues leading to key terms such as "Outlier," "Neural Network," "Clustering," and "Variance." Competitors had to combine their technical understanding with speed to identify these terms hidden within the grid.
- ❖ In Round 3, the final quiz covered both basic Python and data science topics, testing participants on Python syntax, data handling, and important data science methods, requiring a strong grasp of both fields to succeed.

Mayank Garg from AI & DS Department, 2nd year was the winner of this successful event.



Mind Exchange

Date of Event: 15th October 2024



Mind Exchange was a group discussion event designed to promote critical thinking, articulate communication, and the sharing of ideas among participants. Organised by the **Artificial Intelligence & Data Science Department**, the event provided a platform for students to engage in thought-provoking discussions on various topics relevant to technology, data science, and current trends in AI.

Participants were divided into groups, with each group tasked with discussing a given topic, presenting their viewpoints, and defending their arguments.

Impact: The event encouraged collaboration while also pushing participants to express their ideas clearly and confidently.

Evaluator's Role: Ms. Pragya served as the judge for the event, providing insightful feedback on each group's performance. She assessed participants on their ability to articulate their thoughts, engage in meaningful dialogue, and contribute constructively to the group discussion.

Ankit Kumar Giri from ECE Department, 1st year was the winner of this wonderful event.



Free Fire Event



Date of Event: 19th February 2025

The **Free Fire Tournament - "BR Squad"**, organized by DataZoic, Department of Artificial Intelligence & Data Science, was successfully held on **19th February 2025 as part of Utkarsh 2025**, the Annual Fest. The event aimed to provide a competitive platform for gaming enthusiasts, fostering teamwork, strategic thinking, and quick decision-making.

Event Highlights

- The tournament saw an enthusiastic participation of 50 players, all eager to showcase their gaming skills.
- The event started at 10:00 AM, with a briefing on the rules, match format, and fair play guidelines.
- Players engaged in intense battle royale matches, exhibiting impressive coordination and strategic gameplay.
- The competition progressed through multiple elimination rounds, with each match increasing in excitement and intensity.
- The final match witnessed a thrilling showdown, with Mr. Harsh (B.Tech 2nd Year) emerging as the winner, demonstrating exceptional skill and strategy.

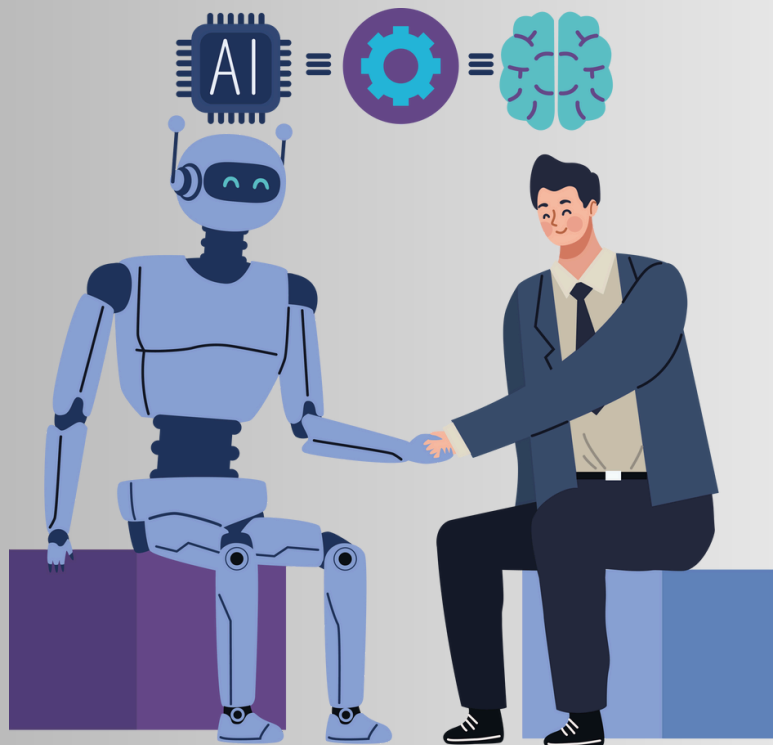
Conclusion: The Free Fire Tournament "BR Squad" was a grand success, adding a dynamic and engaging element to Utkarsh 2025. The event not only entertained but also reinforced the importance of teamwork, adaptability, and strategic thinking in esports.

The DataZoic team extends heartfelt thanks to all participants and supporters for making the tournament a memorable and competitive experience. The overwhelming response has encouraged the organizers to plan similar gaming events in the future, further promoting the esports culture among students.

Unmask AI



Date of Event: 14th October 2024



Real VS AI challenge

"Unmask AI", organized by DATAZOIC, Department of Artificial Intelligence & Data Science, was successfully held on 19th February 2025 as part of Utkarsh 2025, the Annual Fest. The event aimed to provide a competitive platform for players against AI challengers to test their skills. It fostered teamwork, quick decision-making, and human intuition.

The students of S-13 put together an exciting and well-structured event, Unmask AI, featuring three challenging rounds that kept participants engaged and the competition intense



Sports Achievements

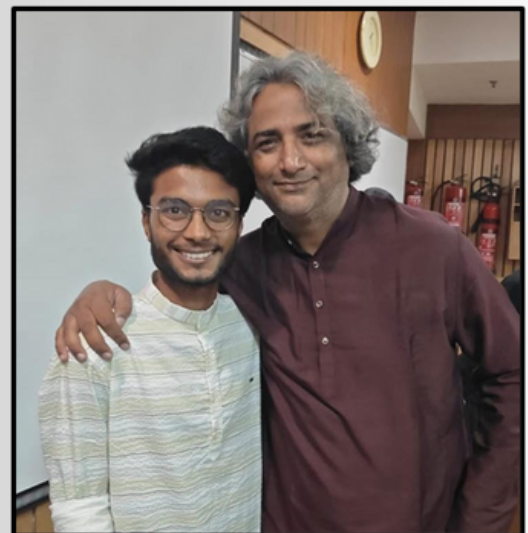


Pushkar Jha Participated in GGSIPU Annual Sports Meet 2024 and received a Silver Medal in Tennis (doubles).

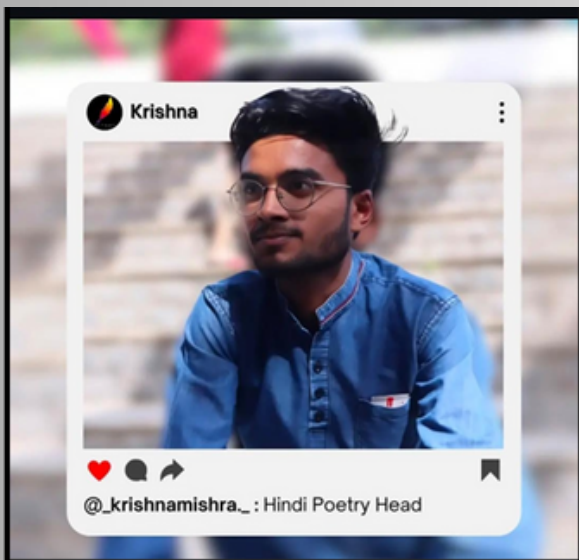


Cultural Activities

Krishna Mishra Achieved 3rd position in 'छात्र कवि संगोष्ठी' at annual cultural fest of IIT Delhi – Rendezvous'24 judged by famous International poet 'Azhar Iqbal'

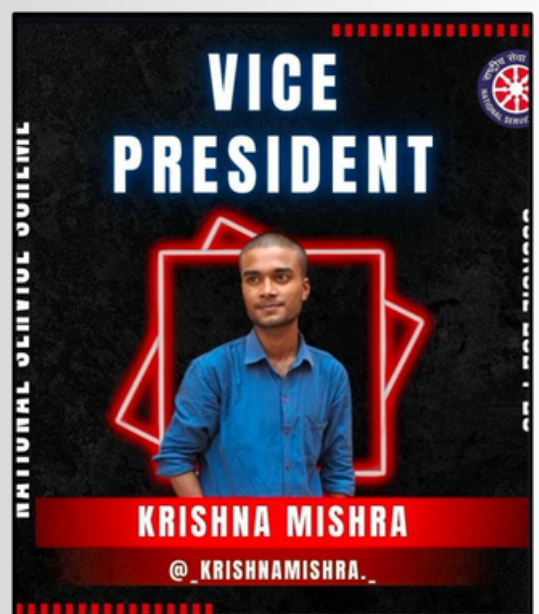


Invited as a judge in an open mic conducted by 'Women Development Cell- Hansraj College' on 3 October, 2024



Served as the '**Hindi Department Head**' of the official Creative Writing Society- ALFAAZ.

Served as the Vice President of the National Service Scheme (NSS).



Academic achievements

"Academic achievements are not just milestones; they are the stepping stones to a future shaped by knowledge, diligence, and a commitment to excellence."

Albert Einstein –

"Education is not the learning of facts, but the training of the mind to think."

ODD Session

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Department of Artificial Intelligence & Data Science
TOPPERS (ODD SEM) 2024-2025
"Applauding Academic Brilliance"
BATCH (2021 - 2025)

NANDINI SINGH
(03815611921)
9.885 SGPA
1st Rank

TUSHAR SINGH
(01415611921)
9.808 SGPA
2nd Rank

KUSHAL GUPTA
(01715611921)
9.808 SGPA
2nd Rank

SHUBHAM SINGLA
(02215611921)
9.808 SGPA
2nd Rank

MAYANK BHARDWAJ
(04115611921)
9.808 SGPA
2nd Rank

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Department of Artificial Intelligence & Data Science
TOPPERS (ODD SEM) 2024-2025
"Applauding Academic Brilliance"
BATCH (2022 - 2026)

MADHAV MAHESHWARI
(03215611922)
9.5 SGPA
1st Rank

PRIYANSHU GUPTA
(04115611922)
9.5 SGPA
1st Rank

KASAK
(02715611922)
9.385 SGPA
3rd Rank

AMAN KUMAR SINGH
(03615611922)
9.385 SGPA
3rd Rank

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Department of Artificial Intelligence & Data Science
TOPPERS (ODD SEM) 2024-2025
"Applauding Academic Brilliance"
BATCH (2023 - 2027) 1ST SHIFT

RIYA
(01615611923)
9.741 SGPA
1st Rank

HARSHIT GOEL
(03215611923)
9.667 SGPA
2nd Rank

KANISHKA CHATURVEDI
(03815611923)
9.593 SGPA
3rd Rank

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Department of Artificial Intelligence & Data Science
TOPPERS (ODD SEM) 2024-2025
"Applauding Academic Brilliance"
BATCH (2023 - 2027) 2ND SHIFT

PRACHI SHARMA
(02796211923)
9.741 SGPA
1st Rank

PIYUSH ARORA
(00896211923)
9.444 SGPA
2nd Rank

SHREYAS GOSWAMI
(04596211923)
9.370 SGPA
3rd Rank

Even Session



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BBD

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

"Celebrating Academic Excellence"

Batch (2021-2025)

Shubham Singla
(02215611921)
9.76 CGPA, 95.00%
1st Rank

Mayank Bhardwaj
(04115611921)
9.620 CGPA, 93.04%
3rd Rank

Nandini
(03815611921)
9.685 CGPA, 94.10%
2nd Rank

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BBD

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

"Celebrating Academic Excellence"

Toppers AI&DS 6th Sem Sec - T11
B.Tech. Examination, May 2024-25

Divya Goel
(02515611922)
9.885 CGPA
1st Rank

Priyanshu
(05115611922)
9.885 CGPA
1st Rank

Kashish
(02715611922)
9.769 CGPA
3rd Rank

Sonika
(04615611922)
9.769 CGPA
3rd Rank

Nishant
(05315611922)
9.761 CGPA
5th Rank

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BBD

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

"Celebrating Academic Excellence"

Toppers AI&DS 4th Sem Sec-13
B.Tech. Examination, May 2024-25
Batch 2023-2027

Muskan Bajetha
(07415611923)
9.880 CGPA
1st Rank

Varuchi Mauriya
(09215611923)
9.880 CGPA
1st Rank

Mohd Farhan Manzer
(05215611923)
9.760 CGPA
2nd Rank

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BBD

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

"Celebrating Academic Excellence"

Toppers AI&DS 4th Sem Sec-12
B.Tech. Examination, May 2024-25

Hitesh Jha
(00815611923)
9.880 CGPA
1st Rank

Niya
(01615611923)
9.760 CGPA
2nd Rank

Harshit Goel
(03215611923)
9.760 CGPA
2nd Rank

#Shaping Generations

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BBD

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

"Celebrating Academic Excellence"

Toppers AI&DS 4th Sem Sec - S20
B.Tech. Examination, June 2025-26

Prachi Sharma
(02796211923)
9.880 CGPA
1st Rank

Shreyas Goumari
(04596211923)
9.880 CGPA
2nd Rank

Sandhya Vidan
(15196211923)
9.760 CGPA
3rd Rank

Piyush Arora
(00996211923)
9.760 CGPA
3rd Rank

#Shaping Generations

Shaping Futures Through Internships

Our students proudly participated in internships with reputed organizations, gaining valuable industry exposure, practical skills, and professional networks. These experiences strengthen career readiness and highlight our college's commitment to excellence

"The future belongs to those who prepare for it today." – Malcolm X

Internship Details (2024-25)

Name	Industry.Company/Organisation	Domain
Rishabh Sharma	Coding Jr	AI Researcher
Shubham singla	Atlanta Systems Pvt Ltd	AI&ML Intern
TUSHAR SINGH	Febi.AI	ML INTERN
Ashish Ranjan	Febi.ai	Ml Intern
Mohd Shawez Khan	Credohire	Data science intern
Sahil Gupta	GeeksforGeeks	MTS Data Science Intern
Kushal Gupta	Ministry of New & Renewable Energy	Research & Development Intern
Nandini Singh	SoftwareOne Academy	Junior Associate - Data & AI
Deepak Choudhary	Febi.ai	ML intern
Hardik Sharma	Geeksforgeeks	Member of Technical Staff (MTS) - Data Science Intern
Anurag Kumar Jha	Northstar Impact Solution	AI/ML Intern
Ansh Varshney	Geeks for geeks	Member of technical staff -Data science
Dhruv Yadav	Defence Institute of Advanced Technology	Research Internship
Ayush Dubey	NetEdge Computing	Ai Programmer Intern
Jatin Singh Sagoi	Techolution	Artificial Intelligence Intern
Shivay Mehra	Spyne.ai	Data Analyst
Gaurav Kumar Singh	Innobuzz	AI Engineer

Sahil Aggarwal

Culinda

Ml Intern

DHRUV

culinda

ml intern

Yuvika Tanwar

Impetus Technologies

Project Trainee

Tanish Jain

Godrej Capital

Analytics Intern

Anuj bansal

Samsung

Product engineer intern

Pratham Bisht

Synlex Intelligence

ML Engineer

Yagya Suri

BrancoSoft

Web developer

Palak Garg

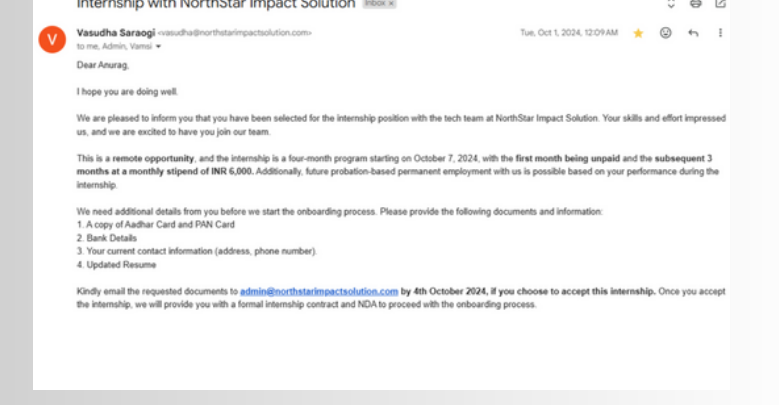
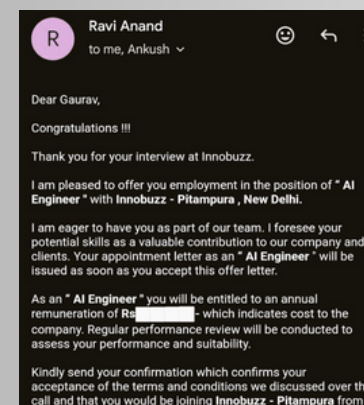
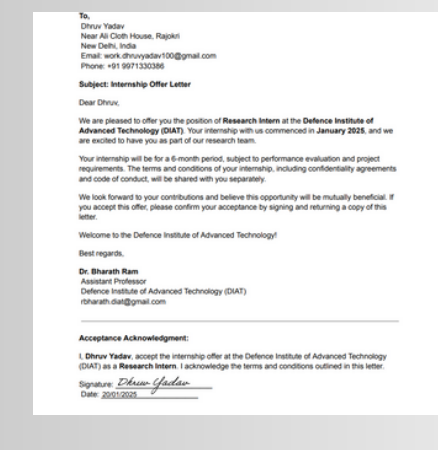
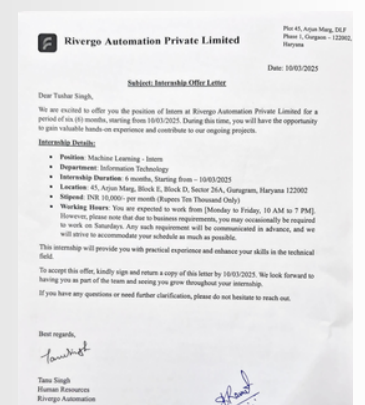
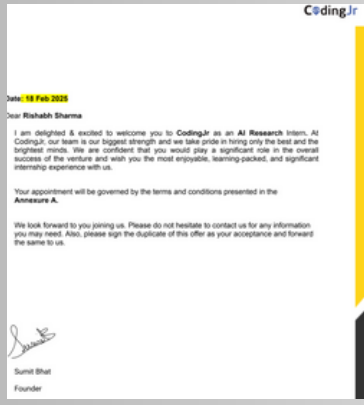
Infosys

System Engineer

Kanishak Tehwatia

Indian meteorological department

Data analyst intern



14th February 2025

Mr. Ayush Dubey
24, Preeti Khand
Jhilmil Colony, Shalimar
New Delhi - 110 095

Dear Mr. Dubey,

With reference to the interview conducted recently at C-56/79, Sector-62, NOIDA - 201 207, we are pleased to offer you a position as an Intern - AI Programming in our organization. Details regarding stipend and other benefits are given in the Annexure.

Your internship will be subject to the rules and regulations of the organization as prevailing from time to time. NetEdge Computing Solutions Pvt. Ltd. will provide you with a challenging and rewarding career ensuring job satisfaction and ample opportunities for career development.

You are requested to report to the undersigned for duty on or before 17th February 2025 at the following address:

C-56/79, Sector-62, NOIDA - 201 201.

On the date of your reporting, please bring the following documents in original (for verification) and photocopies which you need to submit:

- Educational Certificates
- Two passport size photographs
- Date of Birth Certificate

Please return the duplicate copy of this letter signed by you as an acceptance of the Offer.

Wishing you all the best and welcoming you to our organization.

Yours sincerely,

Dr. Manoj Kumar
Chief Executive Officer

NetEdge Computing Solutions Pvt. Ltd.

A-14, Sector-1, NOIDA-201 301, India. CIN: U74999DL1997PL000008

Tel: +91-0522-243-3004
+91-0522-243-3078

No.
Government of India
Ministry of Earth Sciences
India Meteorology Department
Mansarovar Bhawan, Lodhi Road
New Delhi - 110 003



श्री
मानसरोवर
भवन
लूदी रोड
नई दिल्ली - 110 003

Dated: 27th March 2024

CERTIFICATE

This is to certify that the student Kanishak enrolment no. 02315611921 of ADGIPS, Bachelors of Technology in AI & Data Science batch of 2021-25, has successfully completed final semester internship project titled Cyclone Track Prediction Using Deep Learning Techniques: MambaNet & MetMamba in our organization NWP Division, India Meteorological Department, New Delhi under my guidance using analysis, during the period 10th February 2024 to 10th March 2025. He has completed the assigned project well within the given time frame. He is sincere, hardworking and his conduct during the period was commendable.

STUDENT INTERN:
Kanishak Tehwaria

GUIDE: *DR. R. R. Pattanaik*
DR. R. R. PATTANAİK
Scientist-F, Head (NWP)
IMD, New Delhi

DR. R. R. PATTANAİK, Scientist-F, Head (NWP), IMD, New Delhi.
Address: 11, Sector-1, Noida-201 301, India.
CIN: U74999DL1997PL000008
Tel: +91-0522-243-3004
+91-0522-243-3078



Strictly Confidential

Date: 17th October 2024

Dear Shrivy,

We are pleased to offer you a 6 months internship at Eventilla Technologies Pvt Ltd ("The Registered Company") as Intern - Data Analyst for Gurgaon location.

Unless we mutually agree otherwise in writing, your internship start date would be on 21st October 2024.

During this period, you shall be paid a stipend amount of INR 20,000/- per month during your course of the Internship.

All terms and conditions of your Internship, including the code of conduct, will be in accordance with the Company's policies and procedures and the Internship Agreement.

- During the internship either party can give notice of 15 days to annul the association. The Company reserves the right to terminate your service at any time without notice should you be found guilty of misdeemeanor, misconduct, negligence or any breach of the terms and conditions of this agreement.
- As a member of the Data Team, you may work on confidential and/or proprietary information related to the operations, products and services of Spyne and its clients. To protect the interests of both Company and its clients, you are required to read and sign a NDA prior to the commencement of your Internship.
- You will abide by the rules and regulations of the Company enforced from time to time. In the event of any violation, the required disciplinary action shall be initiated.
- Your appointment is subject to the satisfactory clearance based on reference checks and security / service agreements that you may have executed, which could have a bearing on your engagement with us.
- This offer letter is based on the information furnished by you during the course of your interview process with us. If, at any time in future, any of this information is incorrect or any relevant information is found to be withheld, then your internship is liable to be terminated without notice.
- The company may terminate your internship for cause with immediate effect at any time.
- Any disputes arising out of this letter shall be governed by and construed in accordance with the laws of the Government of India.

Eventilla Technologies Private Limited

CIN: U72900DL2021PL000008
Registered office: Flat No. D-2, 3rd Floor, Metro Green Apartment, Plot Number 1503B, Ward-6, Mehrauli, New Delhi-110030
Corporate Address: 801-B/2P, 2ND Mega Mall, 1st & 2nd Floor, Gurgaon, Haryana 122018
Phone: +91-8644 8644 01 | Email: hr@eventilla.com | Web: www.eventilla.com



HRD/FINAL/SEMTRG/2025/1008427995

January 8, 2025

Palak Garg,

Dear Palak,

This is in reference to the Internship Program ("Program" hereinafter) offered to you by Infosys Limited ("Infosys" hereinafter), a corporation incorporated and existing under the laws of India and having its primary place of business at Electronics City, HSR Road, Bangalore 560 100, India, in accordance with the terms of the Internship Agreement executed between you and Infosys on [date]. The details of the Program are as follows:

- | | |
|----------------------------|--|
| 1. Program Date | : January 27, 2025 |
| 2. Duration of the program | : 18 Weeks |
| 3. Mode of Internship | : Physical at the Company's premises at Mysore |

You will be entitled to get a Stipend of Rs. 10,000/- (Rupees Ten Thousand Only) per month during the Program. You would also be covered under the Personal Accident Insurance and Hospitalization Insurance Policy of Infosys for the duration of your Program. If you require additional coverage, you would need to obtain this in your personal capacity.

For the duration of the Program, you will be required to adhere to certain policies / practices that are applicable to employees of Infosys, including but not limited to the Intern's obligations as per the Internship Agreement. Additionally, you may be required to sign agreements with Infosys, at the sole discretion of Infosys, relating to protection of Infosys's confidential and proprietary information. Infosys disclaims all liability and responsibility for acts and/or omissions by you that are in violation of any of the applicable laws, governmental orders, guidelines, rules, ordinances, or regulations that are in force at the applicable time.

Please note that the Internship Agreement may be terminated by Infosys in accordance with Clause 6 of the Internship Agreement.

Please sign this letter, the Internship Agreement and the undertakings, attached herewith and send across a scanned copy of the same to info@infosys.com before 24th January 2025. You are also required to send the signed hard copy of this letter, the Internship Agreement, and the attached undertakings to Infosys's office at Electronics City, HSR Road, Bangalore 560 100, India before 27th January 2025.

You are requested to read and retain the instructions attached to this letter.

If there are any changes to the terms and conditions mentioned above, we will revert with another letter as soon as possible.

Thanking you,

Yours sincerely,

Manish V

Varadaraj V

SVP and Head Talent Acquisition - Infosys Limited

3rd July 2024Mr. Tanish Jain,
Mumbai

Dear Tanish,

Analytics Intern with Godrej Capital Limited ("Company")

We have pleasure in admitting you in our organization as an Analytics Intern subject to the following terms and conditions:

- The Company may avail your services for any of its Affiliates, namely, Godrej Housing Finance Limited or Godrej Finance Limited.
 - You will undergo internship training effective 1st August 2024 to 1st October 2024. The nature of this association may be virtually/physically as may be decided by the Company from time to time. You shall be expected to follow such rules of physical attendance as may be applicable to designated locations.
 - As you are aware, this will be an unpaid internship stint with us.
- You will observe a five-day week and working hours and holidays as notified for our Head Office. Whenever necessary, you will also be required to work on holidays, as may be directed by the project guide without any additional compensation.
- You will undergo training without in any way causing inconvenience or disturbance
 - to any member of our Staff in his / her normal discharge of duties.
- This internship shall not be construed as employment or an offer of employment with the Company or any of its Affiliates.
- The Company or its Affiliate will not be liable for payment of any compensation whatsoever to you for any injury sustained whilst you are engaged with us due to any mishap, accident or injury and you agree to indemnify the company against any claim in respect of any mishap, accident or injury caused to you.
- As an Intern, you will have access to confidential information in respect of the Company or any Associate / Affiliated Company / Group Company. Unless specifically authorized by the Company or the relevant Affiliated Company, you shall not, during your internship/training with the Company/ Affiliate Company or afterwards:
 - disclose confidential information to any third party or
 - use this information for your own purposes or for any purposes other than those of the Company or
 - cause any unauthorized disclosure of the said confidential information due to negligence on your part.



Godrej Capital Limited (formerly Pysa Holdings Limited) (Pysa Holdings Private Limited) (Registered Office: Godrej One, Promoters' Centre Express Highway, Velvet Road, Mumbai, 400076, Maharashtra)
CIN: 687200MH1997PL000002 | Website: www.godrejcapital.com | Tel: 022-69810000
Email: info@godrejcapital.com | Fax: 022-26120000



EMPLOYMENT CONTRACT

THIS EMPLOYMENT CONTRACT dated this 23rd day of December, 2024

BETWEEN:

M/s Synlex Technologies Pvt. Ltd. (Through its Authorized Representative Mr. Yashraj Garg), Having Registered Office At: A-1 DSIDC Complex Nangol - 110041
(the "Employer")
OF THE FIRST PART

- AND -

Mr. Pratham Bhat, S/o Mr. Sanjay Singh Bhat, Resident of 1-254, Jahagir puri - 110033
(the "Employee")
OF THE SECOND PART

BACKGROUND:

- A. The Employer is of the opinion that the Employee has the necessary qualifications, experience and abilities to assist and benefit the Employer in its business.
B. The Employer desires to employ the Employee and the Employer has agreed to accept and enter such employment upon the terms and conditions set out in this Agreement.

IN CONSIDERATION OF the matters described above and of the mutual benefits and obligations set forth in this Agreement, the receipt and sufficiency of which consideration is hereby acknowledged, the parties to this Agreement agree as follows:

1. Commencement Date and Term

- The Employee will commence permanent full-time employment with the Employer on the 23rd day of December, 2024 (the "Commencement Date").
- The Employment Contract will end on 23rd day of February, 2025 (the "End Date") with an option to extend the contract on the End date

2. Job Title and Description

- The Employer agrees to employ the Employee as a Machine Learning Intern.
- The Employee agrees to be employed on the terms and conditions set out in this Agreement. The Employee agrees to be subject to the general supervision of and act pursuant to the orders, advice and direction of the Employer.
- The Employee will perform any and all duties that are reasonable and that are customarily performed by a person holding a similar position in the industry or business of the Employer.

For Synlex Technologies Pvt. Ltd.

Yashraj Garg

Director

Pratham Bhat

{ } techolution India Pvt Ltd

Phoenix Primes, Tower A, 1st Floor, Road Number 2,
Financial District, Narakaram Guda, Hyderabad, Telangana 500032
Contact details: +91 9100000000 | hr@techolution.com | www.techolution.com
CIN: U74120TG2021SPIC01937

PRIVATE & CONFIDENTIAL

INTERNSHIP OFFER LETTER

Date: August 13, 2024

Dear Jatin Singh,

Congratulations! You are hereby officially notified of our desire to offer you an internship with Techolution. The title and terms of the position being offered herein are described below. This offer, if signed by you, shall be considered as an agreement ("Agreement") between yourself and Techolution.

We are delighted to offer you an Internship position as an AI Intern at Techolution commencing date August 14, 2024. For the purpose of this Agreement, you will be referred to as "Intern".

- Effective Date: Your internship will begin on August 14, 2024 and end on August 14, 2025. The duration of the internship can be adjusted based on mutual agreement.
- Time Commitment: You are committing to 45 hours per week. You will be eligible for 1.5 Personal/Casual leaves per month. These leaves will be subject to the manager's approval. Should you need time off, you are required to let the team know as far in advance as possible on the details of your planned leaves. Any additional leave will result in Loss of Pay.
- Salary/Stipend: INR 30,000 per month
- Work Location: Hyderabad
- Reporting Manager: Rishabh Sonal
- Intern Code of Conduct:
 - Intern will maintain a regular internship schedule determined by the Intern and their Supervisor.
 - Intern will demonstrate honesty, punctuality, professionalism, a cooperative attitude, appropriate business attire, and a willingness to learn.
 - Under no circumstances will the Intern leave the internship without first conferring with her/his supervisor.
- Rules of Internship: The Intern is required to observe, follow and abide by all Techolution rules and regulations identified in this Agreement or communicated to Intern by his or her Techolution hiring manager. If Intern has any questions regarding any regulation, including but not limited to consideration of a potential conflict of interest or adherence to Techolution's business and ethical code of conduct, Intern is required to immediately notify his or her Techolution hiring manager. Deliberate or inadvertent breach of any rule or provision, as stated in this paragraph, is

Academic Excellence through Projects in AI & DS

"Projects by B.Tech AI & DS students showcased brilliance in AI models, data analysis, and innovation. Their efforts reflect academic excellence, problem-solving skills, and vision to contribute meaningfully to society."

"AI is not just another technology, it's the next revolution." – Sundar Pichai

AI Data Science Tutor

By Vishal Kumar & Akshat Kumar

The AI Data Science Tutor project aims to create an intelligent learning assistant that simplifies complex concepts through interactive explanations, real-time guidance, and personalized support. Designed to aid students and professionals, it showcases innovation, problem-solving, and practical application of AI in education.

AI Healthcare Chatbot

By Aman Gupta

The AI Healthcare Chatbot is designed to provide instant medical assistance, symptom analysis, and healthcare guidance. Leveraging natural language processing, it ensures accessibility, quick responses, and support, showcasing AI's role in improving patient care.

AyurAI

By Raghav Singh & Ritesh Kumar Singh

AyurAI is an AI-powered healthcare assistant inspired by Ayurveda. It provides personalized wellness recommendations, herbal remedies, and preventive healthcare guidance, combining traditional wisdom with modern technology to promote holistic health and well-being.

Precision Healing: Revolutionizing Physiotherapy Care

By Mayank Bhardwaj

The *Precision Healing* project leverages the power of Artificial Intelligence and Data Science to transform the way physiotherapy care is delivered. By analyzing patient data, tracking recovery patterns, and using predictive models, the system provides more accurate diagnosis and faster recovery. Patients can track their progress digitally, while physiotherapists gain valuable analytics to design effective rehabilitation strategies.

Phishing Website Detector

By Akshat Kumar

The Phishing Website Detector project leverages the power of Artificial Intelligence and Data Science to safeguard users from online fraud. With the rise of cyber threats, phishing attacks have become one of the most common ways of stealing sensitive data such as passwords, banking information, and personal credentials. This system analyzes website URLs, page structures, and hidden patterns using machine learning algorithms to identify fraudulent websites in real time. By classifying suspicious domains and alerting users instantly,

Object Detection Using Deep Learning

Divya Prakash and Adarsh

The Object Detection Using Deep Learning project focuses on the utilization of deep learning techniques to identify and locate objects within digital images and videos. The system employs convolutional neural networks (CNNs) that are adept at recognizing patterns and features in visual data. By training the model on large datasets, the system can detect and classify objects such as pedestrians, vehicles, and everyday items with high accuracy. This project demonstrates the power of AI in visual recognition tasks, enabling efficient and accurate object detection for various

NPC Generation through Metahuman

By Ashutosh Dhal

The NPC Generation through Metahuman project explores the use of AI-driven character creation technologies to design highly realistic and interactive non-playable characters (NPCs) for gaming and virtual environments. This system analyzes website URLs, page structures, and hidden patterns using machine learning algorithms to identify fraudulent websites in real time. By ensuring more accurate diagnosis and alerting users instantly, it acts as a digital shield against cybercrime.

Designed to enhance online safety, the Phishing Website Detector highlights how AI can bring innovation, precision and efficiency into physiotherapy, making time-spent smarter, more accessible, simulations and beyond.

Lane Detection for Autonomous Vehicles

By Ayushmaan Kamboj,
Gaurav Kapoor & Sankalp Singh Rawat

The Lane Detection for Autonomous Vehicles project focuses on building an AI-powered vision system that enables self-driving cars to accurately detect and follow road lanes in real time. By using deep learning algorithms and computer vision techniques, the system can identify lane markings under varying conditions such as poor lighting, curved roads, and weather disturbances. This innovation plays a critical role in ensuring safe navigation and collision avoidance for autonomous vehicles. It not only improves driving precision but also helps in developing intelligent transport systems that minimize human error. Designed with the future of mobility

Face Expressions Identifier for Vehicles

By Harsh Pandey & MD Shazeed

The *Face Expressions Identifier for Vehicles* project leverages artificial intelligence and deep learning to monitor drivers' facial expressions in real time. The system is designed to detect signs of fatigue, distraction, or stress, ensuring enhanced road safety and reducing the risk of accidents.

By analyzing subtle facial cues, the project introduces a proactive safety mechanism that can alert drivers or activate preventive measures when necessary. It represents a step towards intelligent in-vehicle monitoring systems, combining AI, human behavior analysis, and transportation safety.

This innovation not only showcases the power of AI in real-world problem solving but also

SWAYAM NPTEL CERTIFICATIONS

Elite NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)

This certificate is awarded to
JYOTI RANA
for successfully completing the course

Business Analytics and Data Mining Modeling using R

with a consolidated score of **75 %**
Online Assignments 22.91/25 | Proctored Exam 52.8/75
Total number of candidates certified in this course: 171

Jan-Apr 2025
(12 week course)

Prof. Kaushik Ghosh, Professor (Data Mining), Coordinator CEC
Prof. Ranjana Pattana, Professor (DBMS), Coordinator (NPTEL)

Indian Institute of Technology Roorkee

Roll No: NPTEL25MAG951253705963 To verify the certificate No. of credits recommended: 3 or 4

Elite NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)

This certificate is awarded to
KASAK
for successfully completing the course

Business Analytics and Data Mining Modeling using R

with a consolidated score of **70 %**
Online Assignments 21.63/25 | Proctored Exam 48.74/75
Total number of candidates certified in this course: 171

Jan-Apr 2025
(12 week course)

Prof. Kaushik Ghosh, Professor (Data Mining), Coordinator CEC
Prof. Ranjana Pattana, Professor (DBMS), Coordinator (NPTEL)

Indian Institute of Technology Roorkee

Roll No: NPTEL25MAG951253706139 To verify the certificate No. of credits recommended: 3 or 4

Elite NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)

This certificate is awarded to
LOKESH KUMAR ARYA
for successfully completing the course

Data Base Management System

with a consolidated score of **79 %**
Online Assignments 19.17/25 | Proctored Exam 60/75
Total number of candidates certified in this course: 7134

Jul-Sep 2024
(8 week course)

Prof. Kaushik Ghosh, Professor (Data Mining), Coordinator CEC
Prof. Ranjana Pattana, Professor (DBMS), Coordinator (NPTEL)

Indian Institute of Technology Roorkee

Roll No: NPTEL24CS18758143301531 To verify the certificate No. of credits recommended: 2 or 3

Elite NPTEL Online Certification
(Funded by the MoE, Govt. of India)

This certificate is awarded to
MOHD SHAWEZ KHAN
for successfully completing the course

Python for Data Science

with a consolidated score of **83 %**
Online Assignments 24.17/25 | Proctored Exam 59.17/75
Total number of candidates certified in this course: 7596

Jul-Aug 2023
(4 week course)

Prof. Devendra Jalihal, Chairman, Centre for Outreach and Digital Education, IITM
Prof. Anand Thangaraj, NPTEL, Coordinator, IIT Madras

Indian Institute of Technology Madras

Roll No: NPTEL23CS399534401470 To verify the certificate No. of credits recommended: 1 or 2

NPTEL Online Certification
(Funded by the MoE, Govt. of India)

This certificate is awarded to
KUSHAL GUPTA
for successfully completing the course

Programming in Java

with a consolidated score of **58 %**
Online Assignments 24.1/25 | Proctored Exam 33.92/75
Total number of candidates certified in this course: 14693

Jan-Apr 2024
(12 week course)

Prof. Kaushik Ghosh, Professor (Data Mining), Coordinator CEC
Prof. Haimanti Banerji, NPTEL, Coordinator, IIT Kharagpur

Indian Institute of Technology Kharagpur

Roll No: NPTEL24CS4351054308648 To verify the certificate No. of credits recommended: 3 or 4

NPTEL Online Certification
(Funded by the MoE, Govt. of India)

This certificate is awarded to
LAKSHAY WADHWANI
for successfully completing the course

Programming in Java

with a consolidated score of **50 %**
Online Assignments 15.56/25 | Proctored Exam 34/75
Total number of candidates certified in this course: 14693

Jan-Apr 2024
(12 week course)

Prof. Kaushik Ghosh, Professor (Data Mining), Coordinator CEC
Prof. Haimanti Banerji, NPTEL, Coordinator, IIT Kharagpur

Indian Institute of Technology Kharagpur

Roll No: NPTEL24CS4351054300075 To verify the certificate No. of credits recommended: 3 or 4

DR. AKHILESH DAS GUPTA
INSTITUTE OF PROFESSIONAL STUDIES
(Formerly Dr. Akhilesh Das Gupta Institute of Technology & Management)
FC-26, Shastri Park, Shahdara, Delhi 110053
Approved by AICTE & BCI and Affiliated to GGSIPU
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DEPARTMENT OF ARTIFICIAL INTELLIGENCE & DATA SCIENCE

"Academic Achievement" Congratulations
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"Business analytics and Data Mining Modeling using R"

Jyoti Rana
05415611922

Kasak
02715611922

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(Funded by the MoE, Govt. of India)

This certificate is awarded to
PRIYANSHU GUPTA
for successfully completing the course

Data Analytics with Python

with a consolidated score of **72 %**
Online Assignments 25/25 | Proctored Exam 47.45/75
Total number of candidates certified in this course: 10022

Jan-Apr 2025
(12 week course)

Prof. Kaushik Ghosh, Professor (Data Mining), Coordinator CEC
Prof. Ranjana Pattana, Professor (DBMS), Coordinator (NPTEL)

Indian Institute of Technology Roorkee

Roll No: NPTEL25CS1751253701191 To verify the certificate No. of credits recommended: 3 or 4

NPTEL Online Certification
(Funded by the MoE, Govt. of India)

This certificate is awarded to
KUSHAL GUPTA
for successfully completing the course

Data Science for Engineers

with a consolidated score of **49 %**
Online Assignments 18.79/25 | Proctored Exam 30/75
Total number of candidates certified in this course: 3716

Jul-Sep 2023
(8 week course)

Prof. Devendra Jalihal, Chairman, Centre for Outreach and Digital Education, IITM
Prof. Anand Thangaraj, NPTEL, Coordinator, IIT Madras

Indian Institute of Technology Madras

Roll No: NPTEL23CS97544402547 To verify the certificate No. of credits recommended: 2 or 3

FACULTIES ACHIEVEMENTS

Prof. (Dr.) Archana Kumar

- 8 Research Papers
- 1 Patent
- 7 FDPs
- NPTEL Certification on **Big Data Computing.**
- NPTEL Certification on **Affective Computing.**

Mr. Ritesh Kumar

- 6 Research Papers
- NPTEL certification in **Data science using python**
- NPTEL certification in **Data Structure using python**
- NPTEL certification in **Introduction to Machine Learning**
- Co-ordinator for fdp “ **Research methodology for engineering, science and management**”
- 10 FDPs

Dr. Yatu Rani

- 1 Research Paper
 - 1 Patent
 - 3 FDPs
 - 1 Book
-



Ms. Dimpy

- 3 Research Papers
- 1 Patent
- 6 FDPs

Mr. Ankur Jain

- 2 Research Papers
- 5 FDPs

Ms. Meenu

- 2 Research Papers
- 6 FDPs

Ms. Manisha Sharma

2 FDPs

EDITORIAL BOARD



Prof. (Dr.) Archana Kumar
(Faculty Incharge)



Ms. Meenu Sharma
(Faculty Co-Incharge)
