AMIBYTE

"BRIDGING IDEAS WITH INNOVATION"

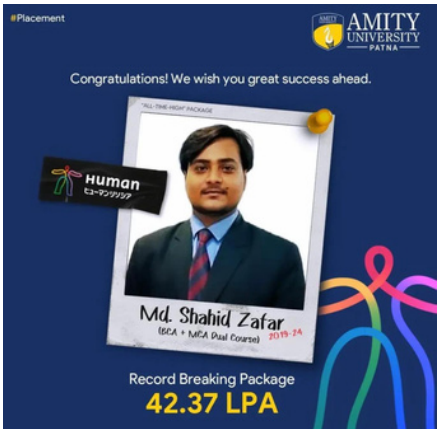
ANNUAL MAGAZINE
AMITY INSTITUTE OF INFORMATION TECHNOLOGY

SESSION 2023-24

AMITY UNIVERSITY PATNA

Highlights

- Departmental Activities
- Techphilia 7.0
- Farewell
- Convocation 2023
- Students Achievements
- Placements
- Summer Internship Program
- Faculty Development Program



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- Prof. Prasanna Kumar

Volume-1

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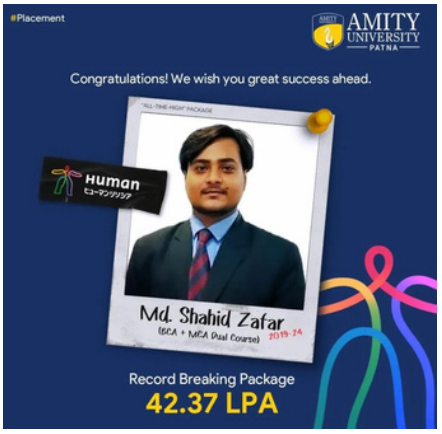


Volume-1

Contents

About Amity University, Patna

Amity University Patna is a part of 25-years old, leading education group of India, Amity Education Group, set up with a vision to contribute to nation-building through education, where currently more than 2,00,000 students are pursuing 300 programmes across campuses in India and abroad. Amity University Patna is yet another landmark project of Amity Education Group to revolutionize the Indian higher education sector by providing globally benchmarked, research and employment-oriented education.

Since its inception, AUP has progressing with each passing year in its mission to provide education at all levels, disciplines of modern times and in the futuristic and emerging frontier areas of knowledge, learning and research; to develop the overall personality of students by making them not only excellent professionals but also a good individual with understanding and regard for human values (Sanskaras). To have pride in their heritage and culture with the sense of right and wrong, yearning for perfection and imbibe attributes for courage of conviction and action.

The Campus is equipped with 100 Mbps Wi-Fi at every corner, computer labs, library with digital access, CCTV camera coverage all around, Audio-Visual facility, AC class rooms, high-end conference hall, printing facilities, Servers Language Lab and spacious Seminar hall. AUP also has awe-inspiring libraries and an extensive digital library, conference rooms, moot court and an excellent media lab with high tech-related multimedia facilities. The campus is brimming with exuberance and enthusiasm while providing the students the necessary atmosphere and facilities for the promotion of innovations in education, leading to restructuring of courses, new methods of teaching, training, and learning including online and blended.

About Amity Institute of Information Technology

Amity Institute of Information Technology , Amity University Patna, Bihar is one of the most prestigious and reputed institutes in Patna, Bihar, India and preferred by many of the local as well as the students from all over the country. In fact, considering its growth statistics, it is one of the fastest growing institutes in Patna, Bihar.

Vision

To be a distinguished center of excellence in creating a technological workforce with innovation, research, entrepreneurial skills in a rapidly evolving digital landscape, contributing to a sustainable society.

Mission

To foster innovation and professional growth through cutting-edge research and ethical use of technology, developing intellectual aspiration and techno-managerial skills to prepare globally recognizable technocrats and entrepreneurs contributing the sustainable society.

Message From The Founder

DR. ASHOK K. CHAUHAN
Founder President, Ritnand Balved Education Foundation
(The Foundation of Amity Institutions and the sponsoring body of Amity Universities)
Chairman, AKC Group of Companies

"My mission is nation building through education and beyond. Each of our students will be a success story. This is my dream; this is my commitment."

Message From The Chancellor

DR. ATUL CHAUHAN
Chancellor, Amity University
President, Ritnand Balved Education Foundation
CEO, AKC Group of Companies

"We are creating centers of thought, leadership across the world, where faculty , scientists and brilliant students can explore and expand the frontiers of knowledge"

Message From The Vice-Chancellor

Prof. (Dr.) Vivekanand Pandey
Vice Chancellor

Dear Esteemed Readers,

It is with great pleasure and pride that I welcome you to the inaugural edition of **"AmiByte"**, the departmental magazine of Amity Institute of Information technology, Amity University Patna. As the Vice Chancellor of this university, I am happy and excited to witness the culmination of dedicated efforts and creative vision that have brought this publication to fruition.

"AmiByte" serves as a platform to celebrate the diversity, innovation, and intellectual prowess that define the department. Within its pages, you will discover a tapestry of insights, reflections, and scholarly endeavours that encapsulate the essence of our academics, research, co-curricular, extra-curricular activities, and other dimensions of the department. This magazine embodies our collective commitment to excellence, fostering a culture of inquiry, collaboration,exploration, and outcomes.

I extend my sincere appreciation to the editorial team, contributors, and all those who have contributed to the creation of **"AmiByte"**. Your dedication and passion are a testament to the strength and vibrancy of our academic community at the University.
I humbly, encourage you to engage with the diverse perspectives and ideas presented in this magazine. May it serve as a source of inspiration, enlightenment, and camaraderie, fostering meaningful connections and igniting intellectual curiosity.

Together, let us celebrate the spirit of inquiry and innovation that defines our university and propels us towards a brighter future.

Best Wishes!

Prof. (Dr.) Vivekanand Pandey

Patna
August 06, 2024

Message From Deputy Controller of Examination (DCOE)

Dr. Sushil Kumar

It is with immense pride and pleasure that I write this foreword for the inaugural edition of the Amity Institute of Information Technology's magazine at Amity University Patna. This publication stands as a testament to our unwavering commitment to academic excellence, innovation and the all-encompassing development of our students. This magazine may become a vibrant mosaic of ideas, creativity and intellectual exploration, reflecting the community's diverse talents and aspirations. As we embark on this exciting journey, I extend my heartfelt congratulations to the editorial team and all contributors whose dedication and passion have brought this vision to fruition. May this magazine inspire, enlighten and serve as a beacon of knowledge for all, guiding us towards continued success and establishing a cherished tradition in our academic endeavours.

Best Wishes!

Message From Deputy Registrar

My warmest greetings to all the readers,

This important publication serves as a testament to the vibrant intellectual community we have cultivated within our Amity Institute of Information Technology department of Amity University Patna.

Our dedicated faculty members of this department are not only educators but also innovators and leaders in their respective areas of expertise. Their commitment to excellence inspires our students to push the boundaries of what is possible in technology.

This magazine highlights the remarkable achievements and contributions of our students, faculty and other members of the department. It showcases the diverse range of projects, research initiatives, and collaborative efforts that make our department a center of innovation and excellence. Each article reflects the hard work, creativity, and dedication of the department.

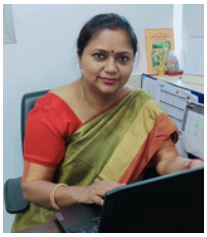
Thank you for being a part of our journey. Together, we will continue to drive innovation, foster knowledge, and make significant contributions to the field of Information Technology.

I wish all the very best to the members of the department for their future endeavors.

With Sincere regards,

Dr. Navneet Kumar Yadav
Registrar (I/c)

Message From The HoI's Desk



DR RASHMI SHEKHAR

Amity Institute of Information Technology was established in the year 2017. Ever since its inception, it has carved a niche for itself in the area of Information Technology, by striking an inimitable balance between the traditional and contemporary components. The institute firmly believes in a strong commitment to communicate optimism, passion, and understanding of IT components to students, in a most meaningful, enthusiastic and result oriented manner. It is equipped with state of the art infrastructure and is committed to maintaining consistently high academic standards.

The institute lays a huge emphasis on sharpening the critical, analytical and creative faculties of the students, so as to build their self- confidence, and prepares them to meet the challenges ahead. To strengthen teaching and research in IT, the institute revises the curriculum, and initiates necessary changes in teaching, learning processes and evaluation practices, at regular intervals.

Innovation has always been the hallmark of the institute and it hosts, graduate, postgraduate and Ph. D. programmes in an ideal matrix for young scholars. Besides this, the institute offers French courses, to make sure that students get exposure to this language of the Enlightenment, which can open wider career opportunities for them. French is the official language of 29 countries, where there is a huge demand for IT experts, and it also opens up possibilities for higher education, at some of Francophone countries' best-known universities (the Sorbonne, EPFL, Pierre Marie Curie University, etc.) or elite grandes écoles (HEC, Polytechnique, ESSEC). With a team of dedicated faculty members, the institute continues to explore new avenues in its pursuit of excellence.

The vision of the institute, in tune with the University, is not only achieving excellence and leadership in the educational process, but also providing knowledge that can benefit our community and serve the nation, and significantly contribute to its development. Of course, a university education is about more than what happens in the classroom. The institute enriches teaching and research by hosting lectures, seminars and conferences that bring scholars, writers and teachers from around the globe to the university. The institute encourages students to pursue research opportunities, to perform and publish their creative work, and to seek internships to build on what they are learning and thus prepare for their future careers.

The institute aims to considerably expand teaching as well as research activities in new directions, in the coming years, in order to address the issues that are of local, national, and global character, via cutting edge research in the areas of Information Technology. As the university grows in stature and quality, the institute aspires to considerably expand its research and teaching activities in new directions, and welcomes all initiatives and support which would help it to work towards that goal.

Happy reading! May the first volume of our magazine AMIBYTE inspire you, inform you and spark new ideas. Enjoy the stories, insights and innovations from our vibrant AIIT community.
With best wishes,
Jai Hind!

Faculty Members

Dr. Rashmi Shekhar holds a Doctorate in Information Technology and boasts 15 years of teaching experience. Currently serving as the Assistant Director and Associate Professor at Amity Institute of Information Technology, AUP, she focuses her research on various domains including programming languages, technological social ventures, the impact of IT on higher education systems, IoT, and social engineering. Dr. Rashmi has contributed significantly to the field, having published one patent and filed three copyrights. She is passionate about fostering innovation among students, particularly in the realms of intellectual property rights (IPR) and startups.

Prof. Prasanna Kumar Pursuing PhD in Information Technology and having 12+ years of teaching experience. Currently serving as an Assistant Professor and Program Leader at Amity Institute of Information Technology, AUP. He is Dedicated and innovative with a passion for higher education and a commitment to fostering intellectual growth and critical thinking among students. Prof. Kumar's interests lie in Software Engineering, Cyber Security and Cloud Computing. Prof. Kumar has published research papers in several journals, holds patents and copyrights. He is also an author of a book.

Prof. Dheeraj Kumar who is currently serving as an Assistant Professor is pursuing his PhD from BIT MESRA and is specialized in IOT and Machine Learning with an experience of 12+ years in academia and industry. Prof. Dheeraj Kumar has been instrumental in multiple startups as a mentor and he has been actively working, with MEITY STARTUPHUB (GOVT.OF INDIA)DESH KE MENTOR (DELHI GOVT.),STARTUP INDIA, NITI AAYOG(GOVT.OF INDIA), and multiple prestigious Tech companies. He has been awarded by several Gov. and Non. Gov Institutions in the field of Innovation and Entrepreneurship.

Prof. Avishek Choudhuri, an Asst. Prof. at Amity University Patna, has 14 years of teaching experience in India & Abroad. He holds degrees including a B.Tech, M.Eng, and is pursuing a Ph.D. in CSE. Mr. Choudhuri has published research papers in SCOPUS indexed journals and book chapters. He has also worked in fortune 500 companies like Mattel as Automation Engineer and successfully Implemented multiple robotic projects.

Prof. Niraj Kumar Rai, an Asst. Prof. at Amity University Patna, has 18 years of teaching experience in India & Abroad. He holds degrees including a BCA, MCA, M-Tech, M.Phil., and is pursuing a Ph.D. from NIT Patna. Prof. .Rai has published research papers in SCOPUS, SCI, and UGC journals, and holds patents and copyrights. He is also an author of books & with training from IISc-Bangalore, IIT-BHU, Osmania University Hyderabad and has attended workshops by Microsoft and leading institutions.


Faculty Members

Dr. Naveen Kumar is an Associate Professor at the Amity Institute of Information Technology. Dr. Kumar has an impressive academic experience of 12+ years in academics. With a strong foundation in computer science and engineering, he completed his Ph.D. in Computer Science and Engineering from Pondicherry Central University. Dr. Kumar's interests lie in Machine Learning, Data Science, and Spatial Data Mining. He has published extensively in international journals and conferences, with notable works on spatial clustering and data mining techniques. Dr. Kumar's engagement with the academic community includes attending and presenting at various seminars, conferences, and workshops. His commitment to education and research is further reflected in his honors, including several publications in SCOPUS-indexed, Web of Science, ESCI journals and patent application for earthquake damage assessment using deep learning.

Prof. Anu Priya is an Assistant Professor at AIIT, Amity University, Patna. With an experience of over 5 years, Prof. Priya is pursuing her Ph.D. in NLP from Jharkhand Rai University and holds a degree in M.C.A from Patna Women's College. Her published works include papers in journals, book chapter patient among others. She is deeply passionate about contributing to the academic and research community while continuously enhancing her knowledge and skills.

Prof. Abhinav Sahay an Assistant Professor of Environmental Sciences at AIIT, Amity University, Patna. Prof. Sahay has 9+ years of teaching experience and currently pursuing Ph.D. in Environmental Science from Uttarakhand Technical University. He holds a Master's degree in Environment Management from Forest Research University, Dehradun, and earned a Bachelor's degree (Hons) in Environmental Sciences, where he received recognition as a Gold Medal list from Patna University. Prof. Sahay has made substantial contributions to academia.. Prof. Sahay has authored 12 peer-reviewed research papers and 2 Scopus-indexed papers, and a notable book within his field.

Dr. Sushant Kumar Dubey is an Assistant Professor of French at AIIT, Amity University, Patna, Bihar. A UGC-Junior research fellow, he got his PhD from the English and Foreign Languages University, Hyderabad. His expertise is in the areas of philosophy and immigrant studies under the rubric of French & Francophone studies. Several Research papers have been published in reputed national, international journals by him. He actively writes chronicles, poems, articles in bilingual medium English & French on topics covering the broad areas of French and Francophone studies.

Mr. Sunil Kumar is a dedicated and accomplished Academic Coordinator at AIIT, Patna. Mr. Kumar Coordinates between faculty, students, and administrative staff to streamline academic processes and Implement initiatives to enhance student engagement and success.

Faculty Corner

Quantum Computing: Pioneering the Future of Technology

Dr Rashmi Shekhar
(Assistant Director and Associate Professor,AIIT)

Introduction

Quantum computing is making remarkable strides in 2024, with groundbreaking developments that promise to revolutionize technology and various industries. This article delves into some of the most significant recent advancements in the field, highlighting key achievements and ongoing challenges.

Hardware Breakthroughs

A major milestone in quantum computing hardware is the creation of a modular, scalable architecture. This new system allows for the efficient control of large arrays of qubits, essential for developing practical quantum computers capable of handling complex computations. Researchers are optimistic that this advancement will pave the way for more accessible and powerful quantum systems soon (MIT News, 2024).

Another significant achievement is the record-setting development of atom-based quantum computers, which have now reached 1,000 atomic qubits. This threshold is crucial because it marks the point where quantum computers can begin to demonstrate their promised efficiency over classical systems. Further research aims to increase this number to 10,000 qubits and beyond, indicating a promising trajectory for the technology (Pause et al., 2024).

Software Innovations

IBM continues to lead in quantum computing software development with several noteworthy advancements. The company has introduced new performance metrics, such as Error per Layer Gate (EPLG), to provide a more accurate measure of quantum processor performance. Additionally, IBM is preparing to release Qiskit 1.0, the first stable version of their quantum software platform, which will include tools for integrating quantum and classical resources. This integration is essential for practical applications of quantum computing (Quantum Computing Report, 2024).

Addressing Challenges

Despite these advancements, the quantum computing field still faces significant challenges, particularly concerning noise and error rates in quantum systems. Researchers are actively working on methods to reduce errors and improve the coherence times of qubits. These improvements are critical to making quantum computers reliable and scalable for real-world applications (MIT News, 2024).

Here are some of the key challenges and possible approaches to address them

1. Qubit Stability and Coherence:

Challenge: Qubits, the basic units of quantum information, are highly susceptible to environmental noise and decoherence, which can quickly destroy the information they hold.

Approach: Implementing error correction codes and developing more stable qubit systems, such as topological qubits or improving superconducting qubit technology, can help increase coherence times.

2. Scalability :

Challenge: Building a quantum computer with a large number of qubits that can perform complex computations is extremely challenging.

Approach: Research into scalable architectures, such as modular quantum computers and distributed quantum computing, where smaller quantum processors are networked together, can address this issue.

3.Error Correction:

Challenge: Quantum error correction requires a significant overhead of physical qubits to protect the logical qubits, making it resource-intensive.

Approach: Developing more efficient error correction codes and fault-tolerant quantum computing techniques can help mitigate this challenge.

4. Quantum Algorithms:

Challenge: Designing quantum algorithms that can outperform classical algorithms for practical problems is non-trivial.

Approach: Continuous research into quantum algorithm development, focusing on areas such as optimization, cryptography, and material science, can expand the range of applications for quantum computing.

5. Hardware Development:

Challenge: Quantum computers require highly specialized hardware, including dilution refrigerators for superconducting qubits and vacuum systems for ion traps.

Approach: Innovations in quantum hardware design and engineering, alongside advances in materials science, can improve the practicality and cost-effectiveness of quantum computers.

Prospects

The future of quantum computing looks promising, with ongoing research and development poised to overcome current limitations. As quantum technology advances, it is expected to have profound impacts on various fields, including cryptography, material science, and artificial intelligence. The potential for quantum computing to solve problems that are currently intractable for classical computers makes it one of the most exciting areas of technological innovation today.

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Faculty Corner

"The Dark Side of AI: Understanding the Impact of Deepfakes"

Prof. Prasanna Kumar,
(Program Leader &
Assistant Professor, AIIT)

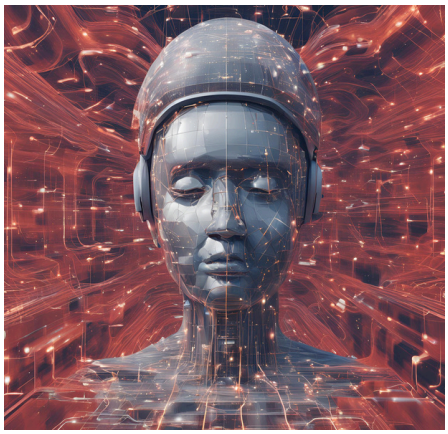
A deepfake is an artificial intelligence-generated or -manipulated media piece that presents a person in the media as someone else. It may include working with an image, a video, an audio track, or any combination of them. The term "deepfake" combines the terms "deep learning" and "fake."

Currently available state-of-the-art deepfake AI is driven by two competing machine learning models. In order to produce new media or alter an already-existing one, the "generator" algorithm is trained using sample audio, video, and/or graphics. The goal is to produce a final product that as nearly resembles the samples as possible.

In the meantime, the "discriminator" algorithm is trained to identify unique characteristics in the samples and identify instances when the "generator" fails to include them, allowing it to go back and fix those discrepancies.
This is known as a generative adversarial network, or GAN. Basically, it works like this:

- The algorithms for the generator and discriminator examine information from media samples.
- The generator produces (or modifies) media in order to approximate the samples as closely as possible. This is how the deepfake started.
- The discriminator looks for discrepancies in the deepfake and the samples.
- The generator sends the deepfake back to the discriminator after correcting any discrepancies the discriminator discovered.
- Continue with steps 3 and 4 until the discriminator is unable to identify any more discrepancies.

Through this process, the generator is eventually able to produce or alter media with such accuracy that it is difficult for either artificial intelligence or human intelligence to distinguish between a deepfake and the real media it is based on.



Deepfake Abuses: How Criminals Use Deepfake Tech

Deepfake Fraud

A criminal can utilize deepfakes to construct false ID credentials that are very difficult to identify as counterfeit if they manage to obtain sufficient samples of a person's appearance and voice along with their sensitive personal information.

Celebrity Deepfakes

When the person who created the deepfake modifies graphic pictures, audio, and/or video to give the impression that a famous person is having sex. This is illegal in many locations and can lead to shame and reputational harm.

How to counteract misinformation created by AI

- Take note of the face. Facial alterations are almost always the focus of high-end DeepFake manipulations.
- Take note of the forehead and cheekbones. Is the skin too wrinkled or too smooth? Is the age of the skin the same as the age of the eyes and hair? It's possible that DeepFakes are inconsistent in some ways.
- Take note of the eyebrows and eyes. Do you see shadows where you would expect them to? It's possible that DeepFakes don't accurately capture the physics of a scene.
- Take note of the eyewear. Is there a glare? Is the glare excessive? Does the person's movement affect the glare's angle? Once more, it's possible that DeepFakes fall short of accurately capturing the physics of light.
- Take note of the presence—or absence—of facial hair. Does this seem like actual face hair? A mustache, sideburns, or beard may be added or removed by DeepFakes. On the other hand, facial hair alterations may not look entirely realistic using DeepFakes.
- Be mindful of any facial moles. Does the mole appear genuine?
- Observe how your eyes flicker. Is the blink rate adequate or excessive?
- Observe the way the lips move. There are deepfakes that rely on lip syncing. Are the lip motions realistic-looking?

Faculty Corner

Beyond Code: The Vital Role of Innovation and Critical Thinking in the Age of Imagination

Prof. Dheeraj Kumar
(Assistant Professor, AIIT)

In an era dominated by technology and digital transformation, coding has often been heralded as the quintessential skill of the future. While coding undoubtedly plays a crucial role in the development of software and digital solutions, it is important to recognize that the true essence of progress lies beyond the lines of code. Innovation and critical thinking are increasingly becoming the cornerstones of impactful change, and imagination remains a more powerful tool than mere knowledge accumulation. This article explores why fostering these qualities is essential in our rapidly evolving world.

The Limits of Coding Alone

Coding, at its core, is a technical skill that enables the translation of ideas into executable programs. It is a valuable tool for building software, automating processes, and solving specific problems. However, coding alone does not encompass the broader spectrum of skills needed to navigate complex, real-world challenges. The ability to write code is only part of the equation; understanding **__why__** *and* **__how__** to apply this code effectively in various contexts is equally, if not more, important.

As technology advances, the focus is shifting from simply knowing how to code to understanding the larger implications of technology in society. This shift necessitates a broader set of competencies, including the capacity to think critically about the ethical, social, and economic impacts of technological solutions.

The Power of Innovation

Innovation is the driving force behind meaningful advancements in any field. It involves the creation of new ideas, products, or processes that bring about significant change. While coding can facilitate the implementation of these ideas, it is innovation that sparks their inception. Innovators are not limited by existing knowledge or conventional thinking; they envision new possibilities and take bold steps to make them a reality.

In the realm of entrepreneurship and business, innovation is often the differentiating factor between success and stagnation. Companies that prioritize innovative thinking are more likely to develop unique value propositions, disrupt traditional markets, and stay ahead of competitors. This requires a mindset that goes beyond technical skills, emphasizing creativity, adaptability, and a willingness to challenge the status quo.

The Importance of Critical Thinking

Critical thinking is the ability to analyze and evaluate information, arguments, and evidence in a logical and systematic manner. It is an essential skill for problem-solving and decision-making, particularly in complex and uncertain situations. In the context of technology and coding, critical thinking enables individuals to assess the validity of different approaches, identify potential risks, and make informed choices.

Moreover, critical thinking is crucial for navigating the ethical and societal implications of technology. As we develop increasingly sophisticated systems, from artificial intelligence to blockchain, it is essential to critically examine their potential impact on privacy, security, and equity. By fostering a culture of critical thinking, we can ensure that technological advancements are aligned with broader societal goals and values.

Imagination: The Ultimate Catalyst

At the heart of both innovation and critical thinking lies imagination. Imagination allows us to see beyond the present and envision a future that does not yet exist. It empowers us to question existing paradigms and explore new possibilities. Albert Einstein's assertion that "imagination is more important than knowledge" highlights the transformative power of creative thinking. Knowledge provides a foundation, but it is imagination that pushes boundaries and leads to groundbreaking discoveries.

In education and professional development, there should be a strong emphasis on cultivating imagination alongside technical skills. Encouraging individuals to think creatively and explore "what if" scenarios can lead to more innovative solutions and a deeper understanding of complex problems.

Conclusion

While coding remains an essential skill in the digital age, it is innovation and critical thinking that truly drive progress and address the multifaceted challenges of our time. Imagination, as a catalyst for these qualities, holds the key to unlocking new possibilities and shaping a better future. By prioritizing these attributes, we can go beyond the technical and embrace a holistic approach to problem-solving and advancement. In the end, it is not just about the code we write, but the visionary ideas we conceive and the thoughtful decisions we make that will define our impact on the world.

Faculty Corner

Literature face à ChatGPT: Un phénomène déjà-vu

Dr. Sushant Kr Dubey
(Assistant Professor, AIIT)

The concepts and methods of ChatGPT are nourished by an imagination that comes from literature, science fiction in particular. One discovers this facet while turning the pages of literary works through the passage of time. In Stanislaw Lem's novels, the texts are full of androids, thinking machines that are increasingly anthropomorphic: science itself invents, and for that, it needs a reservoir of imagination that comes from the arts, from literature. There are also many novels that talk about AI, such as Philippe Vasset's Exemplaire de Demonstration (Fayard, 2003), whose main character is a text generator. The question that arises here is how literature will survive in the age of electronically production of creative works? What would be the role of literary writers face à ChatGPT? How to determine the authenticity of works? The hard work put in by the writers in writing literary works will have the same weightage in the era of ChatGPT?

It is interesting to observe how writers can use AI for the production of literary works, which is already found in Gulliver's Travels where one comes across a wooden machine that tells stories. In the 60s, the first machines to automatically generate texts were developed, like that of Theo Lutz, operating on models on the principle of combinatorics. With Kafka's words and syntactic patterns, the machine creates sentences that are a bit like those of Kafka. There is also a group derived from Oulipo, the Alamo, in the 80s, which developed litteraciels, that is to say software to produce literature. What AI does today does not fall from the sky, there is a whole history of the electronic and then computer generation of text.

I will discuss the possible or already effective impact of AI on the different professions connected with book, particularly on authors. AI is widely used by booksellers; they are offered algorithms for prescribing books according to the preferences and demands of customers, which is a real threat to their profession. The machine offers them what they already like, which is good for sales, but it is toxic for discovery. The principle of AI is a principle of probability, it does not invent anything. The system is the same as on commercial sites where you are suggested what people have bought while consulting a particular article. AI browses this data and transforms it into probabilistic scenarios.

There will certainly be authors who have done nothing of what the machine has provided, which reinforces my idea that literary creation is an essentially human affair, and that at best, the machine only brings out banalities, stereotypes. We may also have writers who will find interesting what has been proposed, even if it means affirming that they are ready to take responsibility for and sign this text. I believe that the most frequent case will concern authors who have eliminated a lot of data provided by ChatGPT, some of which may have given them ideas, and the machine is a factor of serendipity that makes the writer bounce back.

The idea of this experiment is to touch what we all have a little in mind, which fascinates and terrifies us, that is to say that the machine has a creative potential that could eventually dispossess humans of their own creativity, considered to be the property of humans. However, it is necessary to make the general public understand that everything is a business, between humans and machines, of interference. We imagine that it is humans who requisition the machine to make it work for them, but it is the opposite; it is indeed humans who are put in a position of responsibility. It is up to humans to specify what they expect from the machine, by refining their question. If you ask them to write a two-page short story, the feedback from ChatGPT will be very poor, and almost the same for users. On the other hand, the result will depend on the quality of the query submitted, namely the prompt. We can see the emergence of the notion of prompt poetry very recently: there is a purely human inventiveness in the writing of the order addressed. In this case, the machine stimulates human invention.

Furthermore, when faced with the results proposed by the machine, it is up to the human to decide what to keep or not, so he is fully responsible for what he does. Consumer AIs only reproduce their learning corpus, they were not designed to make literature.

We can consider an initial opportunistic use, driven by a possible requirement for productivity gains from publishers who will turn to the machine to produce texts that would cost less than if they had to solicit an author who has their own moods, their own requirements. This logic is already at work in the online press where robots produce stock market and weather reports. The machine takes over from man in editorial activities, for much formatted, limited texts, and without any pretension of inventiveness. Perhaps soon what Antoine Belle describes in his novel Ada will become possible and we will have automatic generators of romantic novels, like Harlequins, based on specifications. This type of text is very prescriptive, responding to a formatted specification and in the long term, its authors could be threatened.

A second use of AI by the writer could take him where he did not plan to go. We are in an experimental approach that has no economic profitability. I will mention in my article the book Internes by Grégory Chatonsky, presented by its author as the first novel co-written with an AI. It is interesting because we no longer know who is speaking, the human or the machine; the enunciation is very strange, and quite exhausting to read. We must keep in mind that even before all these artificial intelligence tools are made available, the writer is never the sole master on board, he works with his literary models, with the anticipation he has of what can be readable or not, and AI is never anything more than an agency that is added to the other flows that cross the writer.

The law is evolving on these issues, and publishers are increasingly thinking with lawyers about including AI in the contracts they sign with authors, to declare or not its use. There will soon be an obligation for AI designers to declare which corporate they have requested, because there is an intellectual property problem that arises. These are very urgent questions and we cannot remain in the current grey area. Perhaps some publishers will ban AI, perhaps its use will reduce sales if it is explicit, or perhaps it will arouse curiosity... Need to observe!

Faculty Corner

The Spirituality and Technology

Prof. Niraj Kumar Rai
(Assistant Professor, AIIT)

Gita GPT is an innovative application of Generative Pre-trained Transformers (GPT) tailored to the study and interpretation of the Bhagavad Gita. The Bhagavad Gita, a 700-verse Hindu scripture that is part of the Indian epic Mahabharata, is a philosophical and spiritual text that addresses complex topics such as duty, righteousness, and the nature of reality. Gita GPT utilizes advanced natural language processing (NLP) technology to enhance understanding and engagement with this ancient text.

Core Functionality:

1. Text Interpretation:
   - Verse Analysis: Gita GPT can analyze individual verses from the Bhagavad Gita, providing explanations and interpretations that help users grasp the meaning of the text. It offers insights into the historical and cultural context of the verses, enriching the reader's comprehension.
   - Contextual Understanding: The model can relate verses to broader themes within the Gita, such as karma, dharma, and yoga, facilitating a deeper understanding of the text's teachings.
2. Personalized Responses:
   - Tailored Explanations: Users can pose specific questions or seek clarifications on particular verses or concepts. Gita GPT generates responses that are customized to the user's inquiry, offering explanations that align with their level of understanding and interest.
   - Interactive Learning: The system allows for interactive dialogues, enabling users to engage in discussions about the Bhagavad Gita and receive feedback that addresses their specific questions or concerns.
3. Educational Tool:
   - Study Aid: Gita GPT serves as a valuable resource for students, scholars, and practitioners of the Bhagavad Gita. It provides easy access to detailed explanations, helping users navigate the complexities of the text and supporting academic and personal study.
   - Teaching Resource: Educators can use Gita GPT to enrich their teaching materials, offering students a digital assistant that complements traditional learning methods and fosters a more dynamic learning environment.

Technological Basis:

- Generative Pre-trained Transformers (GPT): Gita GPT is built on GPT architecture, which leverages machine learning algorithms to generate human-like text based on large datasets. The model has been fine-tuned specifically for the Bhagavad Gita to ensure that its responses are relevant and accurate in the context of this sacred text.
- Natural Language Processing (NLP): By employing advanced NLP techniques, Gita GPT can understand and generate complex textual information, allowing it to provide meaningful interpretations and explanations of the Bhagavad Gita.

Applications and Benefits:

- Enhanced Accessibility: Gita GPT makes the Bhagavad Gita more accessible to a global audience, including those who may not be familiar with its traditional interpretations or who seek a modern approach to understanding its teachings.
- Support for Diverse Learners: The tool supports various learning styles and levels of knowledge, from beginners seeking basic explanations to advanced practitioners exploring intricate philosophical concepts.
- Promotion of Spiritual Exploration: By providing easy-to-understand insights into the Bhagavad Gita, Gita GPT encourages personal and spiritual exploration, helping individuals connect with the text's profound teachings in a meaningful way.

Challenges and Considerations:

- Accuracy and Interpretation: While Gita GPT aims to provide accurate and insightful interpretations, the complexity and depth of the Bhagavad Gita may pose challenges for AI in fully capturing the nuances of the text. Users should be aware of the potential limitations and cross-reference with traditional sources or expert interpretations.
- Ethical Use: The deployment of AI in religious and spiritual contexts requires careful consideration of ethical implications. Ensuring that Gita GPT is used respectfully and in alignment with the values of the Bhagavad Gita is essential to maintain the integrity of its teachings.

Future Directions:

- Continuous Improvement: Ongoing advancements in AI and NLP technology will contribute to refining Gita GPT's capabilities, enhancing its accuracy and relevance in interpreting the Bhagavad Gita.
- Integration with Other Tools: Future developments may include integrating Gita GPT with other educational resources and platforms to provide a more comprehensive and interactive learning experience.

In summary, Gita GPT represents a significant leap in applying modern AI technology to the study of ancient texts. By providing accessible, personalized, and interactive interpretations of the Bhagavad Gita, it serves as a valuable resource for individuals seeking to explore and understand this revered scripture.

Departmental Activities

Guest Lecture
Topic-"Crafting Your Future: Passion, Purpose and Persistence"
Speaker Name-Mr. Asif Iqbal(Director of Commercial and Operational Excellence at NESR)

On April 9, 2024, Amity Institute of Information Technology, Amity University, Patna organized an invited lecture titled "Crafting Your Future: Passion, Purpose and Persistence", delivered by Mr. Asif Iqbal. Mr Asif Iqbal is a seasoned industry leader with a distinguished academic background from the esteemed Indian Institute of Technology Bombay (IIT Bombay). With over 17 years of invaluable experience at Schlumberger, culminating in the role of Country Head of Digital and Integration for Indonesia, and presently serving as the Director of Commercial and Operational Excellence at NESR, possesses a unique blend of technical expertise and strategic vision.

The Program encompassed stimulating discussions on how to make a flourishing career and indulge in in -depth discussions on various elements varying from identifying passion, understanding purpose, embracing persistence to practical guidance. The lecture aspired to motivate and guide BCA and MCA final semester students towards identifying their true interests and channelling them towards successful career paths.

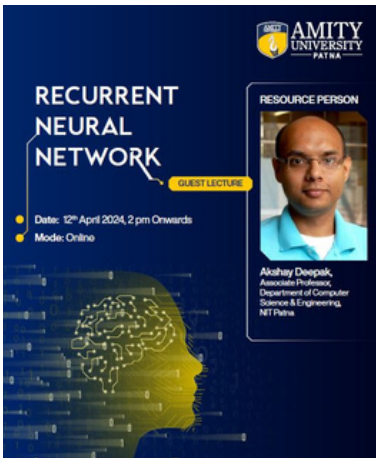
The lecture witnessed active engagement from the BCA and MCA final semester students, who eagerly participated in lively discussions and asked insightful questions related to career exploration, goal-setting, and overcoming obstacles. The guest lecture by Mr. Asif Iqbal proved to be an inspiring and informative session, empowering students to reflect on their passions, define their purpose, and cultivate the persistence needed to achieve their career aspirations. AIIT extends its gratitude to Mr. Iqbal for sharing his expertise and motivating the students towards crafting a fulfilling future.

The guest lecture was attended by Dr. Sushil Kumar, Deputy Controller of Examination, AIIT faculties and students. The session was moderated by Prof. Avinash Singh, Assistant Professor, AIIT.

Departmental Activities

Guest Lecture
Topic-"Recurrent neural Network"
Speaker Name-Dr. Akshay Deepak
Associate Professor, Department of Computer Science & Engineering, NIT Patna.

Invited lectures being an integral part of Departmental activities, Amity Institute of Information Technology, Amity University, Patna conducted an invited lecture on April 12, 2024 titled "Recurrent neural Network", delivered by Dr. Akshay Deepak. Dr. Akshay Deepak is an Associate Professor at Department of Computer Science & Engineering, NIT Patna. He has been the PI of an R& D project sponsored from the Science and Engineering Research Board, Government of India and was awarded Young Faculty Research Fellowship of Visvesvaraya PhD Programme, sponsored by Ministry of Electronics & Information Technology, MeitY, Government of India.



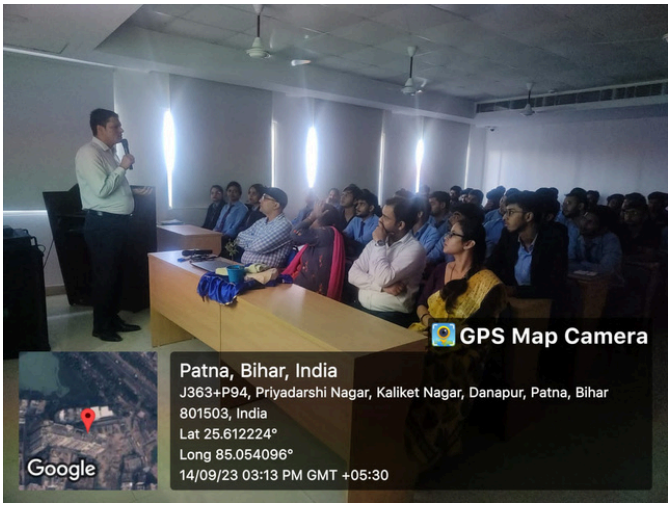
The lecture aimed at equipping BCA and MCA students towards a glorious future in the field of Artificial Intelligence and Neural Networks. The deliberation on topics like Introduction to RNN, Types of RNN, Architecture of RNN and Practical Guidance was witnessed to train oneself with the practical strategies to have a good understanding of Neural Network. The lecture observed active engagement from the BCA and MCA students, who enthusiastically engaged in discussions and asked insightful questions related to the basics of neural network, recurrent neural networks and some concepts of deep learning.

The guest lecture by Dr. Akshay Deepak proved to be a highly enriching session, inspiring students to work in this domain and make a successful career. AIIT extends its gratitude to Dr. Akshay Deepak for sharing his expertise and motivating the students towards crafting a fulfilling future. The guest lecture was attended by Dr Sushil Kumar, Deputy Controller of Examination, AIIT faculties and students. The session was moderated by Prof. Rohitesh Kumar, Assistant Professor, AIIT.

Departmental Activities

Guest Lecture
Topic-"Cyber crime"
(A review of the evidence how police investigate digital evidence)

The guest lecture on the "Cyber crime-A review of the evidence how police investigate digital evidence" delivered by Mr. Deepak Kumar (OCP, Cyber Security Expert), an expert in digital forensics and cyber crime investigation. The lecture began with an overview of cybercrime, emphasizing its various forms, including Hacking, Phishing, Malware, Ransomware, Identity Theft and Online Fraud conducted over the internet. He also explained about collection of Digital Evidence, Preservation of Digital Evidence, Analysis of Digital Evidence, Presentation of Digital Evidence and Challenges in Investigating Cyber Crime. The session provided a comprehensive understanding of how digital evidence is investigated in cyber crime cases, highlighted the importance of meticulous methods, advanced tools, and continuous adaptation to technological advancements. The insights gained underscore the critical role of digital forensics in modern law enforcement and the ongoing challenges faced in the fight against cyber crime.



Annual Fest

Techphilia 7.0: Empowering Progress Through Technology (8th & 9th Feb 2024)

Amity Institute of Information Technology (AIIT), Amity University, Patna, successfully hosted its 7th annual Tech Fest, **Techphilia 7.0: Empowering Progress Through Technology** on February 8th and 9th, 2024. The event, attracted approximately 300 participants, marked another milestone in AIIT's commitment to foster a culture of technological innovation among students. The fest provided platform to young minds across schools, colleges, universities to showcase their skills in technical events like Webtech (co-hosted with Google Developer Group, Patna), Quizzical (technical quiz), Tech Story (storytelling with technology) and TechShot (technology in video making), which successfully ignited students' passion for technology. The event saw a great realm of participation and excitement among students. In events like Code-a-Vita (coding competition) and Clash of Minds (inter-university debate) students exhibit their coding expertise and critical thinking skills.

The event was inaugurated by the Hon'ble Minister Mr. Sumit Kumar Singh, Science and Technology Department, Govt. of Bihar, who commended the academic environment within Amity University Patna. Mr. Sumit Kumar Singh highlighted the remarkable progress of Bihar and its students, attributing it to their dedication and intellect. The Cluster Head of TCS, Patna, Mr. Vivek Sinha, was the Honourable Chief Guest who delivered an inspiring speech that resonated with the participants. He acknowledged the dedication and effort displayed throughout the event, encouraging everyone to continue striving for excellence in their chosen fields. Another chief guest, Mrs. Suverna Sajwan, Commandant, Unit 40, Bn SSB, Danapur, Patna, was impressed by the enthusiasm and discipline displayed by the students. She shared invaluable insights and experiences, inspiring students to pursue excellence and embrace the transformative power of technology.

Techphilia 7.0: Empowering Progress Through Technology
(8th & 9th Feb 2024)



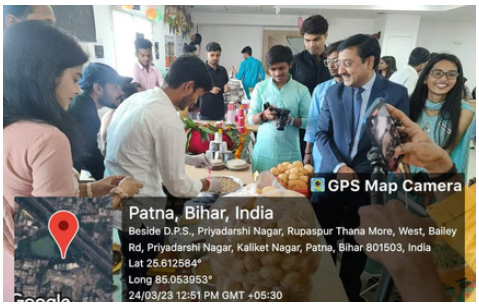
The culmination of Techphilia 7.0 arrived with a grand Valedictory Ceremony, graced by the esteemed presence of the Honourable Chief Guest, Mr. Vivek Sinha, Cluster Head of TCS, Patna, and the Honourable Vice Chancellor of Amity University, Patna, Dr.Vivekanand Pandey. Mr. Sinha delivered an inspiring address, acknowledging the participants' commendable efforts throughout the festival. He encouraged them to maintain their dedication and strive for excellence in their respective fields. The ceremony concluded with the felicitation of event winners and a warm appreciation expressed by Mr. Sinha for the diverse student body present from various schools and colleges.

Techphilia 7.0 successfully achieved its objectives, fostering a vibrant environment for students to explore their technological capabilities, ignite their passion for innovation, and gain valuable industry insights. The event's success reflects the tireless efforts of the organizers, faculty, staff, and the enthusiastic participants. This collaborative effort has positioned Techphilia as a leading platform for nurturing future tech leaders and innovators. Looking ahead, AIIT plans to build upon this success, shaping Techphilia 8.0 into an even more impactful event.




Bihar Diwas

Bihar Diwas is celebrated annually on March 22nd to mark the formation of the state of Bihar. It commemorates the day in 1912 when Bihar was carved out from the Bengal Presidency by the British. The celebration features cultural events, traditional music, dance performances, and exhibitions showcasing Bihar's rich heritage. AIIT organized activities to highlight the state's historical and cultural significance. Bihar Diwas fosters a sense of pride and unity among the people of Bihar, celebrating their unique identity and achievements.



Talent Hunt

Talent Hunt Competition is an exciting event designed to showcase the diverse talents of new students. Participants can exhibit their skills in music, dance, art, drama, and more, providing a platform to shine and gain recognition. This event fosters creativity, confidence, and camaraderie among freshers, encouraging them to explore and develop their abilities. It's a vibrant celebration of emerging talent, making the college experience memorable and engaging for everyone involved.

Sangathan

Annual mega-sports meet organized every year at Amity campuses with a variety of indoor and outdoor events such as Chess, Carrom, Volleyball, Basketball and many more. It witnessed participation of more than thousand students across AUP.




Janamashtami Celebration

Janmashtami celebration at the campus is a joyous occasion filled with cultural and spiritual activities commemorating the birth of Lord Krishna. The event typically features devotional songs, dance performances, and dramas depicting the life and teachings of Krishna. Students and staff participate in traditional rituals, including the breaking of the Dahi Handi, a fun and energetic activity symbolizing Krishna's playful nature. The celebration fosters a sense of unity and devotion, allowing everyone to experience the festive spirit and cultural richness of Janmashtami together.



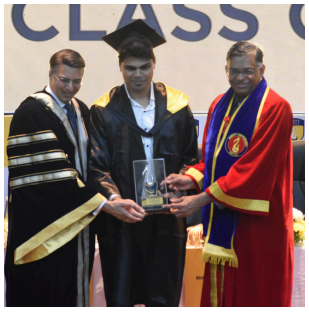

Special Events-Farewell "SAYONARA"

A farewell programme, titled "Adieu Affair" was organized on 19th June 2024 for the final semester students of BCA, BCA+MCA Dual Program which witnessed several enthralling events like Ramp show, Mr. &Mrs. Farewell to lighten up the day and ended up with an emotional adieu carrying all the blessings, emotions to keep enlightening the future and in return making the gurus proud.

Mr. Farewell/BCA/2024- Rajeev Ranjan
Ms. Farewell/BCA/2024- S S Noor Ashiya Matin
Mr. Farewell(MCA)/2024-Vikash Kumar
Ms. Farewell(MCA)/2024-Sanjana Kumari

Convocation 2023

On 23-Feb-2024, Amity Institute of Information Technology held its annual convocation ceremony at Gyan Bhawan Patna, a significant event marked by pride and joy for graduates, their families, and faculty. The ceremony was a testament to the hard work and dedication of the students, culminating in the awarding of degrees and recognition of academic excellence. The ceremony was graced by the presence of Honorable Dr. Atul Chauhan(Chancellor, Amity University), Honorable Dr. Vivekanand Pandey(VC, AUP), who delivered an inspiring address. The chief guest emphasized the importance of perseverance, continuous learning, and the impact of education on personal and societal growth. Their speech was a highlight of the event, resonating deeply with the audience.



Students Achievements

Innovators of Tomorrow: Celebrating our Students' Successes

The Amity Institute of Information Technology, Amity University, Patna has always been a breeding ground for innovation, creativity, and technical prowess. This year, our students have truly outdone themselves, achieving remarkable milestones in various domains. Let's take a moment to celebrate their hard work and dedication.

Hackathon Heroes- Smart India Hackathon

The Smart India Hackathon has successfully provided a platform for young innovators to showcase their talents and contribute to the nation's development. The active participation of students has not only fostered a culture of innovation but also bridged the gap between academic learning and real-world applications. The hackathon's impact on students' careers and the successful implementation of their projects underscores the event's significance in India's technological advancement.

Participant Demographics

Total Number of Participants: Over 50,000 students from various educational institutions across the country.
Diversity: Participants included undergraduate, postgraduate, and PhD students from engineering, technology, and management backgrounds.
Geographical Spread: Representation from all states and union territories, with significant participation from rural and semi-urban areas.

Registration and Selection Process

Initial Registration: Students registered in teams of 6, with at least one female member encouraged in each team.
Problem Statements: Participants selected from a pool of problem statements provided by various ministries, government departments, and industries.
Preliminary Rounds: Teams submitted detailed proposals and solutions, which were evaluated by a panel of experts.
Final Selection: Top teams were selected for the grand finale based on innovation, feasibility, and potential impact.

Green Tech: Bihar Climate Action Conclave & Expo

The Climate Action Conclave has underscored the urgency and importance of addressing climate change through collaborative efforts, innovative solutions, and unwavering commitment. The conclave has reaffirmed that climate change is a global challenge that requires immediate and concerted action. The devastating impacts of climate change are already being felt worldwide, and delaying action will only exacerbate these effects. It is our collective responsibility to act now and implement strategies that will mitigate these impacts and safeguard our planet for future generations.

Mini Web Hackathon-In Collaboration with GDG Patna

The Mini Web Hackathon-In Collaboration with GDG(Google Developer Group)Patna was a resounding success, showcasing the creativity and technical prowess of participants. The event not only resulted in the development of innovative web solutions but also strengthened the community of web developers and tech enthusiasts. The collaborative spirit and high-quality outputs underscore the potential for future hackathons to drive technological advancement and address societal challenges.

Students Placements

Bridging Education and Industry

Amity Institute of Information Technology, Amity University, Patna continues to excel in providing students with exceptional placement opportunities, ensuring that their transition from academic life to the professional world is seamless and successful. Our placement cell, in collaboration with industry partners, works tirelessly to secure promising career opportunities for our graduates.

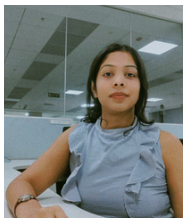
This year, Amity Institute of Information Technology has achieved an impressive placement record, with over 60 % of students securing job offers from leading companies. Our graduates have been placed in diverse roles, ranging from software development and data analysis to cybersecurity and project management. Some of the top recruiters include:

Tech Giants: Amazon, IBM
Consulting Firms: EY, Deloitte, Accenture, TCS, Wipro, Infosys, and Capgemini
Startups and SMEs: Innovative and rapidly growing companies in the tech sector.
Banking & Finance: Federal Bank, IDBI First, HDFC

Empowering Futures: Department's Placement Success Highlights

Jyotshna
(BCA)
TCS

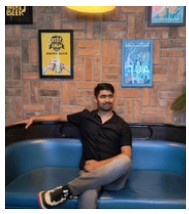
Ashish
(BCA)
WIPRO



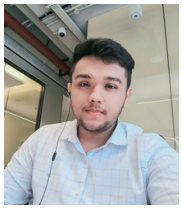
Anushka
(BCA)
TCS

Manya
(BCA)
SAP

Raunak Raj
(BCA)
TCS



Kislay
(BCA)
Wipro



Aakash Kr Mishra
(BCA)
EY

Madan Mohan Kumar
(BCA)
TCS

Vartika
(MCA)
(Intellect Design Arena Ltd.)

Atul Raj
(MCA)
IBM

Aparna Sriwastawa
(MCA)
IDFC First Bank

Nitish Kumar Singh
(MCA)
Capgemini

Vikash Kumar
(BCA+MCA)
Federal Bank

Ritwik Ranjan Sinha
(BCA+MCA)
Federal Bank

Online Predation: Exploring the Threats and Vulnerabilities Faced by Women in Social Engineering

Author: Vikas Kumar

In an technology characterised with the aid of using unparalleled virtual connectivity and technological advancement, the limits among the bodily and digital worlds maintain to blur. The internet, as soon as hailed as a beacon of empowerment and democratization, has now emerged as a battleground fraught with dangers and vulnerabilities, especially for girls. In this problematic virtual panorama, wherein anonymity reigns best and limitations are ephemeral, the phenomenon of on-line predation looms large, casting a shadow over the promise of virtual empowerment.

The genesis of on-line predation lies within side the realm of social engineering, a complicated shape of manipulation that exploits human psychology and agree with to misinform people into divulging touchy facts or acting movements that advantage the perpetrator. From phishing emails and pretexting to extra complicated schemes of emotional manipulation and gaslighting, social engineers wield an arsenal of methods designed to take advantage of vulnerabilities and undermine the very cloth of agree with that binds groups together.

Yet, the effect of on-line predation isn't felt uniformly throughout society. Rather, it's far fashioned and exacerbated with the aid of using current electricity dynamics, societal norms, and gendered expectancies that permeate each aspect of our virtual interactions.

Women, in particular, locate themselves on the intersection of more than one axes of oppression, navigating a virtual panorama fraught with peril and uncertainty. Central to our inquiry is the popularity of on-line predation as a manifestation of broader styles of gender-primarily based totally violence and discrimination. From the phenomenon of cat fishing and grooming to the insidious methods of gas lighting and emotional manipulation, girls are disproportionately focused and exploited in virtual areas, their voices silenced and organization undermined.

Yet, amidst the darkness, there exists a glimmer of hope—a collective name to motion to reclaim the virtual realm and make certain that it stays a safe, inclusive, and empowering area for all. By dropping mild at the gendered dimensions of on-line predation and offering techniques for empowerment, this paper seeks to catalyze a paradigm shift in our technique to virtual protection and security. Through awareness, education, and collaboration, we will forge a course toward a destiny wherein girls can navigate virtual areas with confidence, resilience, and organization.

Student's Corner

Large Language Model (LLMs)
Author: Rishabh Kumar(BCA)

In this era of technology, LLMs are transforming the field of AI with their ability to understand and generate human like text. It is called large language models as they are trained on vast amount of data. Some of the well-known LLMs are GPT-4, Gemini etc.
A large language model (LLM) [1] is a type of artificial intelligence (AI) model designed to understand and generate human-like text.It takes users input as prompt to the foundation model in any form like text, images etc., and generates the text based output. It performs various tasks which include question-answering, sentiment analysis, information extraction etc. These models are typically based on deep learning techniques and trained on vast amounts of text data.

There are various advantages of LLMs which includes:
1.Automatation of Tasks: LLMs can handle repetitive tasks quickly and thus saves a lot of time.
2.Adaptability: It can be used in many fields like healthcare, education, and business.
3.Consistency: It provides consistent and standardized responses.
4.Availability: They can work anytime efficiently without needing breaks.
5.Reduced Errors: They can minimize human errors in tasks like data entry.

LLMs have wide range of applications which include various fields which are as follows:
1.Healthcare: It provide explanations and answer questions on various subjects as well as create educational materials and summaries.
2.Business: It automates the creation of business reports and summaries and analyses market trends.
3.Marketing: It generate blog posts, social media content, and marketing copy.
4.Content Creation: It help with drafting emails, articles, reports and also helps with drafting emails, articles, and reports.
5.Customer Support: It provides automated responses to customer inquiries and assist with tasks and provide information.

Gemini is a powerful language model from Google. It can answer your questions, help you write different creative text formats, and even translate languages. There's a free version that lets you explore these features.
If you want more advanced features, there's a premium subscription option. This subscription unlocks a stronger version of Gemini that can tackle complex tasks like coding and understand much larger documents. You can also upload your own files for analysis and get deeper insights. Additionally, subscribers get early access to new features as they become available.
Bibliography

[1] https://www.ibm.com/topics/large-language-models
[2]https://www.coursera.org/courses?query=artificial%20intelligence
[3]https://www.udemy.com/topic/machine-learning/
[4] https://www.coursera.org/specializations/natural-language-processing
[5]https://raga.ai/blogs/llm-project-ideas

Summer Internship Program

Codroidhub Private Limited, is a leading e-learning company specializing in providing world-class digital-age education to academic institutions all across India.

Technologies
Blockchain with Cyber Security
Artificial Intelligence with IoT
Machine learnng with IoT

CodroidHub

AMITY UNIVERSITY PATNA

SUMMER INDUSTRIAL TRAINING PROGRAM

Week 1 - Schedule

27 June 2023 - 30 June 2023

TIME	COURSE
9:50 - 11:50 am	BCB
12:00 - 2:00 pm	MLoT
BREAK	
2:30 - 4:30 pm	AIoT

Nomenclature

BCB - Blockchain with Cyber Security
AIoT - Artificial Intelligence with IoT
MLoT - Machine learning with IoT

Note:-

Student should carry their laptops.

Student should report on time.

Student should be polite and cordial in their dealings.

Student should carry their ID cards.

Student should participate actively in all summer training activities

Student should ask questions and communicate with instructors.

BLOCKCHAIN WITH CYBERSECURITY

147	34	40	5	5	1
No. of Participants	No. of Teams	No. of Projects	No. of Patents	No. of Copyrights	No. of Workshop

The Summer Industrial Training Program on Blockchain with Cybersecurity was a dynamic 6-week educational initiative meticulously designed for BCA and B.Tech students. With a participant count of 147, the program promoted hands-on learning and collaboration. Split into 30 teams, students engaged in practical projects that intertwined blockchain and cybersecurity, fostering problem-solving skills and teamwork.

Notably, the program's outcome shone with 10 patents, showcasing participants' innovative solutions. This patent count underscored the program's commitment to nurturing creative thinkers poised to impact the tech landscape.

The comprehensive curriculum covered blockchain fundamentals, cybersecurity principles, and practical development, preparing students for versatile roles. Guest lectures by industry experts provided insights into industry trends and potential career pathways.

The program concluded with project showcases and certification, affirming participants' achievements. Beyond technical aptitude, students developed vital soft skills, ensuring their preparedness for the tech industry. Ultimately, the program's legacy lay in producing graduates primed to drive innovation, bolster cybersecurity, and shape the future of technology.

STUDENT'S VOICE

"Trainers are awesome, helpful, knowledgeable and very friendly to us"

Session on Intellectual Property Rights

INTELLECTUAL PROPERTY RIGHTS

The session on "Intellectual Property Rights (IPR) Awareness" aimed to enlighten students about the significance of protecting and respecting intellectual creations in various fields.

The session provided students with a foundational understanding of intellectual property rights and their role in fostering innovation, creativity, and fair competition. Through engaging discussions and examples, students gained insights into the different forms of intellectual property, their importance, and the legal frameworks governing them.

STUDENT'S VOICE

> Session was informative.
> Hoping to file my ideas too.

KEY HIGHLIGHTS

- Exploring Intellectual Property Categories
- Understanding the Value of Protection
- Respecting Copyright and Plagiarism
- Innovation and Entrepreneurship
- Interactive Activities
  - Case Studies
  - Creative Commons Exploration

Faculty Development Program

Session on Cyber Resilience & Blockchain Innovation Program

FDP ON CYBER RESILIENCE AND BLOCKCHAIN INNOVATION PROGRAM

OVERVIEW

The Faculty Development Program on "Cyber Resilience and Blockchain Innovation" was a comprehensive and enlightening initiative aimed at enhancing the knowledge and expertise of educators in the realms of cybersecurity and blockchain technology.

THE FACULTY DEVELOPMENT PROGRAM ON "CYBER RESILIENCE AND BLOCKCHAIN INNOVATION" EFFECTIVELY EMPOWERED EDUCATORS WITH VALUABLE INSIGHTS INTO THE DOMAINS OF CYBERSECURITY AND BLOCKCHAIN.

The program was meticulously crafted to empower participating faculty members with a deep understanding of two crucial areas - cyber resilience and blockchain innovation. It brought together accomplished experts, researchers, and practitioners to delve into the challenges and opportunities presented by these domains.

PARTICIPANT'S VOICE

"Overall, I found the session to be informative and thought-provoking."

Industry Visit

An Industrial tour was organized by the Amity Institute of Information technology on 26-04-2024 for final semester BCA and MCA students to Vaishali/ Hajipur. Students got enriching experience of visiting an industrial site of Britannia and they got knowledge about various processes in making and its byproducts.

Indian Heritage Visit

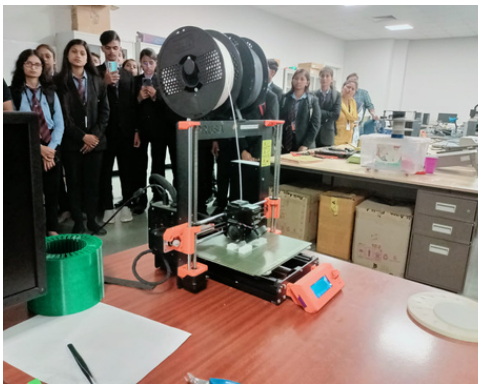
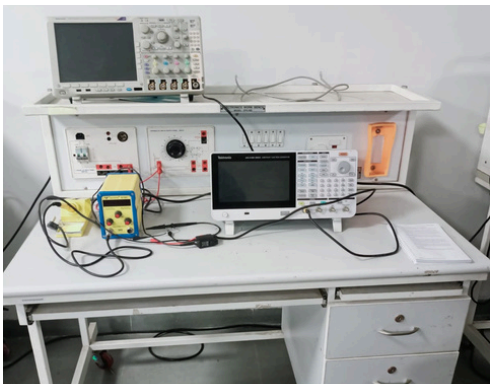
Incubation Center Visit

The Indian Institute of Technology (IIT) Patna Incubation Center stands as a beacon of innovation, fostering the growth of startups that aim to bring cutting-edge technologies to the forefront. A visit to this dynamic hub of creativity and entrepreneurship by our students offered a glimpse into the vibrant ecosystem that is helping to shape the future of technology and business in India. The IIT Patna Incubation Center has produced several success stories, with many startups achieving significant milestones under its guidance. The incubation center is equipped with modern laboratories, high-performance computing resources, and collaborative workspaces designed to inspire creativity and collaboration. Startups have access to advanced tools and technologies that are crucial for prototyping, testing, and refining their products.







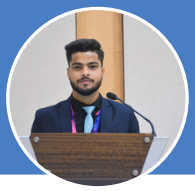

TESTIMONIAL

I am incredibly grateful for my time at Amity University Patna. My experience there was nothing short of transformative. The supportive community, and cutting-edge facilities provided an ideal environment for academic and personal growth.

I would like to extend my heartfelt thanks to some of the exceptional professors who made a lasting impact on my educational journey. Rashmi Ma'am's insightful lectures and approachable demeanor fostered a deep understanding of the subject matter. Dheeraj Sir's innovative teaching methods and dedication to student success were truly inspiring. Prasanna Sir's passion for his field and commitment to excellence challenged me to push my boundaries. Kunal Sir's encouragement and guidance were instrumental in shaping my career aspirations.

The faculty's unwavering support, combined with the university's emphasis on holistic development, equipped me with the skills and confidence needed to excel in my professional life. I am proud to be an alumnus of Amity University Patna and will always cherish the memories and friendships formed during my time there.

Shruti
(BCA 2018-21)



I am immensely grateful for the time I spent at Amity University, where I pursued my BCA from 2018 to 2021. The invaluable knowledge imparted by our dedicated professors not only broadened my academic horizons but also equipped me with essential professional skills. These skills were instrumental in helping me secure a job at TCS, where I have successfully transitioned into a working professional. The supportive environment at Amity and the emphasis on practical learning laid a strong foundation for my career, and I cherish the memories and experiences from those formative years.

Raunak Raj
(BCA 2018-21)
TCS

I would like to express my sincere gratitude to Amity University, Patna for helping me at each and every step of my professional career. The Institute provided me the best possible platform and infrastructure to pursue my career interest. The highly knowledgeable and supportive faculty members made me industry ready, while the placement training helped me enhance my technical as well as professional skills.
I owe my current career and progress to this esteemed institution which played an active role in shaping my personality.
Our faculty members were always
there to guide me and also equipped me with skills, which prepared me well for the recent trends and challenges in the IT industry. Amity University Patna also ensured an overall and comprehensive development by making students participate in extracurricular
activities that helped me inculcate leadership qualities and enhance my self confidence level. Finally, to my Alma Mater, I thank you Amity University, Patna for providing me with lifelong mentors who I know I could always go to at any point in my career. Thank you for opening doors to so many opportunities and thank you for setting me up for success.

Vartika
(MCA 2020-22)
Associate Consultant
(Intellect Design Arena Ltd.)

TESTIMONIAL

My journey with AIIT has been nothing short of transformative. As a proud alumna of the MCA program, I owe a great deal of my professional and personal growth to the exceptional faculty, supportive peers, and the enriching academic environment that AIIT provided. The rigorous curriculum, coupled with hands-on projects and industry interactions, equipped me with the skills and confidence to navigate the competitive landscape of the tech industry.

Currently, I am serving as a Senior Officer at IDFC First Bank in Hyderabad. My role involves leveraging technological solutions to optimize banking operations, ensuring customer satisfaction, and driving innovative initiatives within the organization. The foundation laid by AIIT has been instrumental in shaping my career and enabling me to contribute effectively in my current role.

I would like to extend my heartfelt gratitude to my professors, whose guidance and mentorship have been invaluable. Their dedication to fostering a culture of excellence and their unwavering support have been pivotal in my success. I am also deeply thankful to my family, whose constant encouragement and belief in my potential have been my greatest source of strength.

AIIT will always hold a special place in my heart, and I am proud to be a part of its illustrious legacy.

Aparna Sriwastawa
(MCA 2021-23)
IDFC First Bank

It's great experience to study in organization like Amity university.
It gave us a real life time exposure when I was in college i think it not good and all but when i came to corporate the i understand that what my organization gave me in two years.
It's very easy to survive here because I get all the training in college already it didn't take much time to be comfortable in corporate.
I will be always greatful to Amity university and all professor's and specially our HOD Dr Rashmi shekhar.
Thank you everyone for giving me a life time memory.

Nitish Kumar Singh
(MCA 2021-23)
Capgemini

My experience at Amity University Patna while pursuing my MCA has been truly enriching. The university provided a conducive environment for learning with its well-equipped classrooms and state-of-the-art facilities. The faculty members were highly knowledgeable and supportive, always willing to guide and mentor us. The curriculum was comprehensive, covering both theoretical knowledge and practical skills, which prepared me well for the challenges in the IT industry. Amity University Patna also emphasized holistic development, encouraging participation in extracurricular activities and events that helped in building my confidence and leadership skills. I am grateful for the wonderful academic journey and the valuable experiences I gained during my time at Amity University Patna."

Atul Raj
(MCA 2021-23)
IBM

EDITORIAL

Amity Institute of Information Technology, Amity University, Patna is glad to present the first volume of our magazine “AMIBYTE”, containing glimpses of all the events that took place in the institute during the session 2023-24. As the faculty editors of this year’s magazine, we hope that we can read between the lines of the achievements and events listed in this edition and appreciate the same with utmost enthusiasm. Our institute has been abuzz with exciting events, such as the successful annual fest Techphilia7.O, the vibrant sports festival "Sangathan", and thought-provoking workshops, guest lectures, training camps on various topics pertaining to IT. These accomplishments and events showcase the talent, passion, and commitment of our university community, and we are proud to be a part of this dynamic institution. Whether you are a seasoned tech professional or simply curious about the impact of technology on our world, this edition has something for everyone-so dive in, explore and discover the exciting possibilities that await us in the ever-changing world of IT. We invite you to read on and celebrate the accomplishments of our students and faculty, and to stay connected with us through social media and submissions for future editions.

We, the editorial team of AMIBYTE would like to express our heartfelt gratitude to honourable Vice Chancellor sir Dr Vivekanand Pandey for his unwavering support and guidance throughout the publication process. Our hearty congratulations to the intrepid and enthusiastic Dr RashmiShekhar, HOI& Chief Editor of the magazine, who wholeheartedly guided, motivated the editorial team and provided the initiative and encouragement that accelerated the making of this magazine. The present edition is a testament to her ability to balance creativity with clarity and to bring out the best in the team, is truly remarkable.Our goal is to inform, inspire and spark meaningful conversations that drive positive change. We hope you enjoy this edition and join us in our mission to empower and educate the tech community.

Thank you!

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