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The IT Department offers Bachelor of Technology programme in Information Technology. The faculty members of department are well qualified and effective.

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Academic Session
2021-2022(Even Semester)

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Head of Department, IT

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(Assistant Professor, IT)

Student Co-ordinators

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Sanskriti Joshi (3rd year IT)

VISION

- To become a front runner in transforming the individuals into competent IT professionals, to meet the needs of evolving technology and serve the humanity.

MISSION

- To impart quality education with innovative teaching learning process to develop culture of research and innovation.
- Collaborate and interact with industry professionals, academicians to provide suitable forums to exhibit the creative talent of students.
- Provide leadership and planning for effective and strategic use of information technology.

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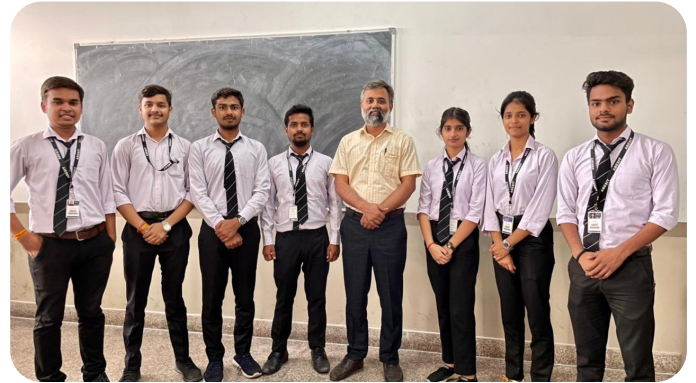
Machine Learning applications for Data Analytics



IT Department Organized a Expert Talk on “Machine learning applications for Data Analytics ” on 27/04/2022 from 11:00 am to 12:00 pm. Students from 3rd year IT attended the expert talk. The speaker for the session was Mr. Ravikant Tyagi ,CEO-Brain Mentors Pvt. Ltd.

The Expert talk gave insights into challenging problems where Machine learning algorithms can be used to solve complex problems. The resource person gave hands on experience on case studies like Gender Detection and Fake data generation using GAN. The session was interactive and the students were motivated to learn Deep learning, Data Analysis etc.

Terror of Error



IT Technical Club organized the event “Terror Of Error” for CSE, CSE(AI), CSE (DS), CSE(IOT), IT branches of 1st and 2nd Year , including 3rd Year.

Date: 13th May, Friday

Time: 03:00 PM - 05:00 PM

Organizers:

Sajal Garg , Aparna Jha , Ayush Kumar , Vikas Yadav , Khushi Sharma , Priyansh Daksha, Abhay Saxena, Harshita Phulwani.

The event gave a good chance to the participants for advancement in their Coding skills and challenging their knowledge in it. The event was conducted in two rounds.

ROUND 1: Debugging round

ROUND 2: Blind Coding

The event gave an adrenaline rush to the coder's with their actively participation and made this event a huge success with cognizance and a fun Techy day for all. Consequently, we have successfully achieved the goal of our event and the Winners for this event were:

1. Bhumit Gupta (CSE(IOT) 2nd Year)
2. Ravi Chauhan (CSE 3rd Year)
3. Aman Gupta (CSE 2nd Year)

IT Technical Club congratulates the winners for this feat. Winners are awarded with prize money.

BitBrain Club Events

AZURE DAY



ABESIT BIT-BRAIN CLUB organised "AZURE DAY".

From Azure community our speakers were (Sanjaya kumar Verma, Sarthak Jain, Dibyasom Puhan) who gave insight about Azure and ML development to our participants .

44 participants were present in the event.

A successful completion of the event with full of enjoyment and acknowledgement regarding Microsoft Azure Day. ABESIT Ghaziabad BIT BRAIN CLUB

On the spur of the moment

On 30th June,2022 ZEN club of IT department organized the event

“On the spur of the moment”

Where students from different departments participated and spoke on the random topic for 2 minutes.

The event was successfully completed and the winners are:

1 st- Hemanshi Choudhary from CSE(DS)

2nd- Deepanshu Bisht from CSE(DS) and Priyank Awasthi from CSE(AI)

3rd- Ayush Mishra from IT

We thank everyone who was a part of it and contributed in the event.



Dance your Heart



Zen Club of IT Department organised an event “Dance your Heart” on 12/05/2022.

Students from different departments participated in the event. The vivacious participants set the floor on fire with their energetic performances. Students performed different forms of the dance which kept the audience enthralled.

The winner of the events were Sameeksha, Kajal Pandey from B.pharma followed by runner up Girisha Narula IT Branch and Suyash Chaudhary from EC branch.

Faculty Achievements

Faculty Paper Publish

SESSION (2021-2022)

Dr. Bipin Kumar Rai

Rai, B. K. (2022). Patient-Controlled Mechanism Using Pseudonymization Technique for Ensuring the Security and Privacy of Electronic Health Records. **International Journal of Reliable and Quality E-Healthcare (IJRQEH)**, 11(1), 1-15. DOI: [10.4018/IJRQEH.297076](https://doi.org/10.4018/IJRQEH.297076) (**Scopus Indexed**)

Rai, B. K. (2022). Ephemeral pseudonym based de-identification system to reduce impact of inference attacks in healthcare information system. **Health Services and Outcomes Research Methodology**, 1-19. DOI: [10.1007/s10742-021-00268-2](https://doi.org/10.1007/s10742-021-00268-2) (**ESCI, Scopus Indexed**)

Faculty Name	S.No	Publication Details	Date
Ms. Shivani Sharma & Dr. Bipin Kumar Rai	01	"SAHYOG:AN INFORMATION-DELIVERY CHANNEL USING KIOSK & HONEYPOT", AIP Conference Proceedings 2424, 020005 (2022) https://doi.org/10.1063/5.0076720	21 Mar 2022
	02	"Hand talk: Intelligent gesture based communication recognition & object identification for deaf and dumb", AIP Conference Proceedings 2424, 080007 (2022) https://doi.org/10.1063/5.0076796	21 Mar 2022
	03	"Blockchain Based Electronic Healthcare Record(EHR)", AIP Conference Proceedings 2424, 070006 (2022) https://doi.org/10.1063/5.0081176	May 2022
	04	"OCR based medical prescription and report analyzer", AIP Conference Proceedings 2424, 070006 (2022) https://doi.org/10.1063/5.0081176	01 Feb 2022
	05	"Automated Voice Assistant , Lecture Notes in Electrical Engineering, vol 828. Springer, Singapore" , https://doi.org/10.1007/978-981-16-7985-8_20	May 2022
	06	"Federated Learning for Data Mining in Healthcare, Federated Learning for IoT Applications" , https://doi.org/10.1007/978-3-030-85559-8_16	02 Feb 2022
	07	"Federated Learning Using Tensor Flow, Federated Learning for IoT Applications" , 10.1007/978-3-030-85559-8_10	02 Feb 2022

Faculty Achievements

Faculty Paper Publish

SESSION (2021-2022)

Faculty Name	S.No	Publication Details	Date
Dr. Bipin Kumar Rai	01	"DevOps Sensoring Neuro Cluster, Lecture Notes in Electrical Engineering, vol 828. Springer, Singapore", https://doi.org/10.1007/978-981-16-7985-8_8	May 2022
	02	"Security Challenges and Solutions for Healthcare in the Internet of Things, Healthcare Systems and Health Informatics: Using Internet of Things", https://doi.org/10.1201/9781003146087	21 Feb 2022
	03	"Security Issues and Solutions for Healthcare Informatics , Federated Learning for IoT Applications" , 10.1007/978-3-030-85559-8_12	02 Feb 2022
Dr. Kaushal Kishore	01	"Student Performance Prediction Using Technology of Machine Learning, Lecture Notes in Networks and Systems, vol 373. Springer, Singapore" , https://doi.org/10.1007/978-981-16-8721-1_53	Feb 2022
	02	"Predict COVID-19 with Chest X-ray, book series (LNDECT, volume 90)", https://doi.org/10.1007/978-981-16-6289-8_16 .	Jan 2022
	03	"Study and Development of Self Sanitizing Smart Elevator, book series (LNDECT, volume 90)" , https://doi.org/10.1007/978-981-16-6289-8_15	Jan 2022
	04	"Personalized Federated Learning, Federated Learning for IoT Applications", https://doi.org/10.1007/978-3-030-85559-8_3	02 Feb 2022
	05	"Communication-Efficient Federated Learning, Federated Learning for IoT Applications" , https://doi.org/10.1007/978-3-030-85559-8_9	02 Feb 2022
Dr.Satya Prakash Yadav	01	"Review in Wavelet Transforms Based Medical Image Fusion, Evolving Role of AI and IoMT in the Healthcare Market" , 10.1007/978-3-030-82079-4_9	1st Jan 2022

Students Achievements

Student Research Papers

SESSION (2021-2022)

S.No	Topic Event	Roll No.	Student Name	Details of Paper Published	Date	Branch Year
01	Predict COVID-19 with Chest X-ray	1729013010	ANKIT SHARMA	Sharma A., Jha N.. (2022) Predict COVID-19 with Chest X-ray. In: Gupta D., Polkowski Z., Khanna A., Bhattacharyya S., Castillo O. (eds) Proceedings of Data Analytics and Management. Lecture Notes on Data Engineering and Communications Technologies, vol 90. Springer, Singapore. https://doi.org/10.1007/978-981-16-6289-8_16 .	01 Jan 2022	IT 4th Year
		1729013027	NIKHIL JHA			
02	Study and development of Self Sanitizing Smart Elevators	1729013043	SANIYA TYAGI	Gupta S., Tyagi S. (2022) Study and Development of Self Sanitizing Smart Elevator. In: Gupta D., Polkowski Z., Khanna A., Bhattacharyya S., Castillo O. (eds) Proceedings of Data Analytics and Management. Lecture Notes on Data Engineering and Communications Technologies, vol 90. Springer, Singapore. https://doi.org/10.1007/978-981-16-6289-8_15 .	01 Jan 2022	IT 4th Year
		1729013047	SATYAN GUPTA			
03	Student Performance Prediction Using Technology of Machine Learning.	1729013034	RAHUL SHARMA	Sharma R. (2022) Student Performance Prediction Using Technology of Machine Learning. In: Sharma D.K., Peng SL., Sharma R., Zaitsev D.A. (eds) Micro-Electronics and Telecommunication Engineering. Lecture Notes in Networks and Systems, vol 373. Springer, Singapore. https://doi.org/10.1007/978-981-16-8721-1_53	01 Jan 2022	IT 4th Year

Students Achievements

Student Research Papers

SESSION (2021-2022)

S.No	Topic Event	Roll No.	Student Name	Details of Paper Published	Date	Branch Year													
04	Hand Talk: Intelligent gesture based communication recognition & object identification for Deaf and Dumb	1729013005	AKASH KESHARWANI	"Hand talk: Intelligent gesture based communication recognition & object identification for deaf and dumb", AIP Conference Proceedings 2424, 080007 (2022) https://doi.org/10.1063/5.0076796	01 Feb 2022	IT 4th Year													
		1729013049	SHREYASHI MAHESHWARI				05	SAHYOG: AN INFORMATION-DELIVERY CHANNEL USING KIOSK & HONEYPOT	1729013015	DEEPALI RAO	Sharma R. (2022) Student Performance Prediction Using Technology of Machine Learning. In: Sharma D.K., Peng SL, Sharma R., Zaitsev D.A. (eds) Micro-Electronics and Telecommunication Engineering. Lecture Notes in Networks and Systems, vol 373. Springer, Singapore. https://doi.org/10.1007/978-981-16-8721-1_53	01 Feb 2022	IT 4th Year	1729013031	PALLAVI GHOSAL	06	Medical Prescription and Report Analyzer	1729013009	ANJANI KUMAR
05	SAHYOG: AN INFORMATION-DELIVERY CHANNEL USING KIOSK & HONEYPOT	1729013015	DEEPALI RAO	Sharma R. (2022) Student Performance Prediction Using Technology of Machine Learning. In: Sharma D.K., Peng SL, Sharma R., Zaitsev D.A. (eds) Micro-Electronics and Telecommunication Engineering. Lecture Notes in Networks and Systems, vol 373. Springer, Singapore. https://doi.org/10.1007/978-981-16-8721-1_53	01 Feb 2022	IT 4th Year													
		1729013031	PALLAVI GHOSAL				06	Medical Prescription and Report Analyzer	1729013009	ANJANI KUMAR	Sharma R. (2022) Student Performance Prediction Using Technology of Machine Learning. In: Sharma D.K., Peng SL, Sharma R., Zaitsev D.A. (eds) Micro-Electronics and Telecommunication Engineering. Lecture Notes in Networks and Systems, vol 373. Springer, Singapore. https://doi.org/10.1007/978-981-16-8721-1_53	01 Feb 2022	IT 4th Year	1729013004	AKASH GOYAL				
06	Medical Prescription and Report Analyzer	1729013009	ANJANI KUMAR	Sharma R. (2022) Student Performance Prediction Using Technology of Machine Learning. In: Sharma D.K., Peng SL, Sharma R., Zaitsev D.A. (eds) Micro-Electronics and Telecommunication Engineering. Lecture Notes in Networks and Systems, vol 373. Springer, Singapore. https://doi.org/10.1007/978-981-16-8721-1_53	01 Feb 2022	IT 4th Year													
		1729013004	AKASH GOYAL																

Placements

Congratulations and Wishing All The Success!!

S.No	Name of Student	Company
1	Devansh Kapoor	Knoldus
2	Vaibhav Kumar	Knoldus
3	Satyam Gupta	PAYTM
4	Abhijeet Chandel	Erasmith
5	Anuj Kumar	Erasmith
6	Vaibhav Kumar	Erasmith
7	Sumrah Fatima	To the new
8	Abhiraj Varshney	VectoScalar
9	Devanshu Pandey	Wipro
10	Digvijay Dheer	Wipro
11	Mohit Rawat	Wipro
12	Savi Sharma	Wipro
13	Vanshika Shukla	Wipro
14	Aakash Prajapati	Traingle Services
16	Sunidhi Singh	Infinity Labs
17	Kaushiki Chopra	Innobit systems
18	Ishika Rastogi	Innobit systems
19	Simran Chaudhary	Mobcoder

Placements

Congratulations and Wishing All The Success!!

S.No	Name of Student	Company
20	Ashish Pawar	NTT Data
21	Rohan Tyagi	NTT Data
21	Kumar Satyarth	Timeswap
22	Dev sharma	Podtech India Pvt Ltd
23	Pranjal	Esec Forte Tech
24	Rakhi Bhati	Planet cast
25	Keshav Sharma	Planet cast
26	Tanya Tyagi	Planet cast
27	Akhilendra	Planet cast
28	Kashan khan	Planet cast
29	Tanmay	Planet cast
30	Sagar Singhal	Medcart Specialities India Pvt Ltd
31	Ritik	SysTools
32	Rishabh shukla	Algoworks



Evolution of Nanotechnology

Article by : Deepanshu Bisht (3rd Year (CS-DS))

Day by Day our world is moving rapidly in order to reach the futuristic world. In this rush various domains of IT sector and Medical sector are rapidly changing their technologies so that they can meet human challenging needs occurring with a single instance.

As per our current scenario everything needs to be compact and convenient to use. In medical sectors various new types of machines are introduced which provide a huge difference as respect to the previous one(Consider an example of smart IR sensors which are so concise and easy to install in medical instruments or smart watches we generally wear to monitor our health).

NEED OF NANOTECHNOLOGY : Nanotechnology has greatly contributed to major sectors in computing and electronics, pursuing faster, smaller, reliable and portable systems that manage and help to store such frequently generated data .

Innovation in medical sectors :

- High-resolution image of a polymer-silicate nanocomposite. This material has improving thermal, mechanical, and barrier properties and can be used as a storage container for food and beverages.
- Artificial bone segments.
- Smart pills and nanobots.
- Organ Transplantation by Nano-immunotherapy Impacting.

Innovation in IT sector:

- BIONIC CHIPS(Apple recently launched their A16 bionic chips in which 16000 million transistors are embedded on a 4nm chip.)
- Hydrophobic Silica Nano Coating for Prolonged Light Efficiency of Outdoor Lighting(which leads to lower down power consumption)
- Hearing pods and digital glasses attract people.