



DATA DIVE

DEPARTMENT OF B.TECH CSE- AI&DS

NEWSLETTER

JAN - JUNE

2023-2024



VOLUME 1 | ISSUE 2

DEPARTMENT

VISION

"TO ACHIEVE HIGH. QUALITY IN TECHNICAL EDUCATION THAT PROVIDES THE SKILLS AND ATTITUDE TO ADAPT TO THE GLOBAL NEEDS OF THE DATA SCIENCE AND ANALYTICS SECTOR, THROUGH ACADEMIC AND RESEARCH EXCELLENCE."

MISSION

M1: TO EQUIP THE STUDENTS WITH THE COGNIZANCE FOR PROBLEM SOLVING AND TO IMPROVE THE TEACHING LEARNING PEDAGOGY BY USING INNOVATIVE TECHNIQUES.

M2: TO STRENGTHEN THE KNOWLEDGE BASE OF THE FACULTY AND STUDENTS WITH MOTIVATION TOWARDS POSSESSION OF EFFECTIVE ACADEMIC SKILLS AND RELEVANT RESEARCH EXPERIENCE.

M3: TO PROMOTE THE NECESSARY MORAL AND ETHICAL VALUES AMONG THE ENGINEERS, FOR THE BETTERMENT OF THE SOCIETY.

PROGRAM OBJECTIVES



ANALYTICAL SKILLS:

To facilitate the graduates with the ability to visualize, gather information, articulate, analyze, solve complex problems, and make decisions. These are essential to address the challenges of complex and computation intensive problems increasing their productivity.



TECHNICAL SKILLS:

To facilitate the graduates with the technical skills that prepare them for immediate employment and pursue certification providing a deeper understanding of the technology in advanced areas of computer science and related fields, thus encouraging to pursue higher education and research based on their interest. [inder here.](#)



SOFT SKILLS:

To facilitate the graduates with the soft skills that include fulfilling the mission, setting goals, showing self-confidence by communicating effectively, having a positive attitude, get involved in team-work, being a leader, managing their career and their life.



PROFESSIONAL ETHICS:

To facilitate the graduates with the knowledge of professional and ethical responsibilities by paying attention to grooming, being conservative with style, following dress codes, safety codes, and adapting to technological advancements.

PROGRAM SPECIFIC OUTCOMES (PSOs)



PSO1: Fundamentals and critical knowledge of the Computer System and Data Analytics:

Able to Understand the working principles of the computer System and its components , Apply the knowledge to build, asses, and analyze the software and hardware aspects of it .



PSO 2: The comprehensive and Applicative knowledge of Software Development:

Comprehensive skills of Programming Languages, Software process models, methodologies, and able to plan, develop, test, analyze, and manage the software and hardware intensive systems in heterogeneous platforms individually or working in teams.

FACULTY EDITOR



Ms. Anju Saini

B.Tech, M.Tech

STUDENT EDITOR



Harshit Dwivedi
Chief Editor



Khushi Panwar
Editor



Diksha
Editor



Bhavya
Editor

Intellectual Property Laws



The department of CSE - AIDS and IT at PIET proudly extends an exclusive invitation to everyone for a special session commemorating 'World Intellectual Property Day' 2024. This enlightening event, dedicated to raising awareness about Intellectual Property Rights (IPR), is scheduled for April 26, 2024, from 11:30 am to 1:00 pm, at the IT Seminar hall, situated on the 2nd floor of E-block. The objective of intellectual property laws is to protect creations of the human intellect, including inventions, literary and artistic works, designs, symbols, names, and images. These laws grant legal rights and privileges to creators or owners, fostering innovation, creativity, and investment in research and development. However, they also aim to strike a balance between the interests of creators and the public, promoting the dissemination of knowledge while safeguarding creators' rights to benefit from their creations.

Code Clash

Technical Quiz Competition



The department of B.Tech CSE - (AI&DS) organized a technical quiz event on 16th April, 2023, aiming to ignite enthusiasm and curiosity among students from diverse academic backgrounds. With participants from BCA, MCA, and B.Tech, the event facilitated cross-disciplinary learning and collaboration. Quiz questions, curated for varying difficulty levels, challenged participants' problem-solving abilities across programming and technology domains. Distinguished guests from Extremum Analytics enriched the event with industry insights. Strong institutional support, evidenced by the attendance of HOD Sir and Rakesh Tayal Sir, emphasized a commitment to academic excellence. The event's highlight was awarding prizes to the top 3 winners-

1. Dhruv Jain
2. Muskan
3. Ujjwal Sharma

Academic Visit



The Department of B.Tech CSE - (AI&DS) organized an academic visit to BITS, Pilani on 4th-5th April 2024. The visit aimed to provide practical exposure beyond theoretical classroom learning. Objectives included understanding various technological concepts, observing real-world equipment and infrastructure, exploring career opportunities in Data Science, and learning about certification programs offered by BITS, WILP (Work Integrated Learning Programmes). With 38 students and 3 faculties participating, the visit facilitated hands-on learning experiences in a renowned academic institution, enriching students' understanding and paving the way for future career prospects.

Industrial Visit



Panipat, Haryana, India
6268+CQV, Haryana 132102, India
Lat 29.211034°
Long 77.017227°
03/05/24 01:32 PM GMT +05:30

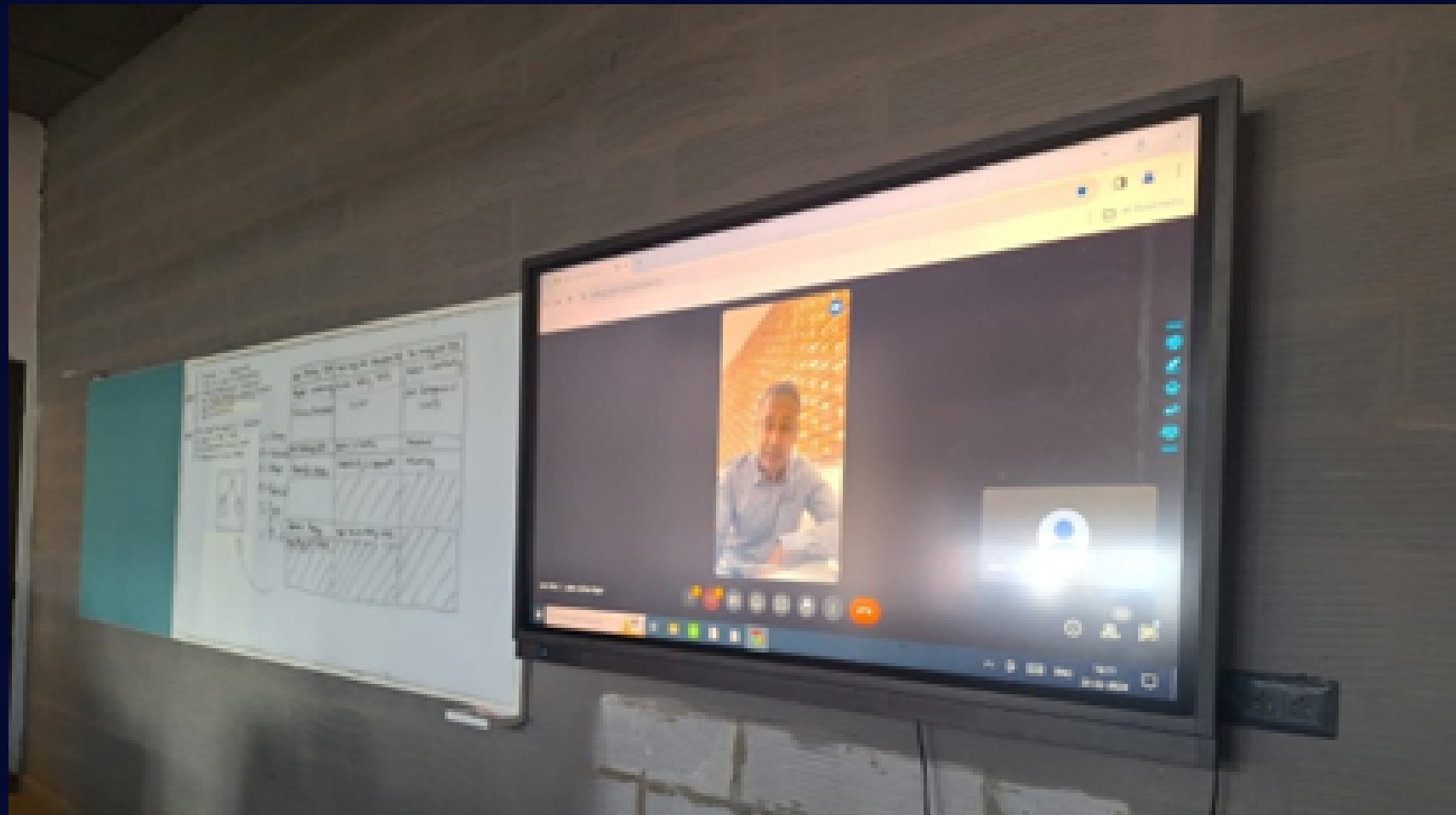


Noida, Uttar Pradesh, India
Sandeep Kumar Asarin House, H66, Block H, Sector 63, Noida, Uttar Pradesh
Lat 28.627216°
Long 77.376558°
03/05/24 01:13 PM GMT +05:30

The Department of B.Tech CSE - (AI&DS) organized an industrial visit to AppSquadz Software Pvt. Ltd, Noida on 3rd May 2024. The visit aimed to provide an exposure about the workflow of IT companies and latest technologies. Objectives included understanding real-world equipment and infrastructure, exploring career opportunities in Data Science. The students got exposure about the workflow of IT companies and the latest technologies. With 34 students and 3 faculties participating, the visit facilitated hands-on learning experiences in a renowned Company, enriching students' understanding and paving the way for future career prospects.

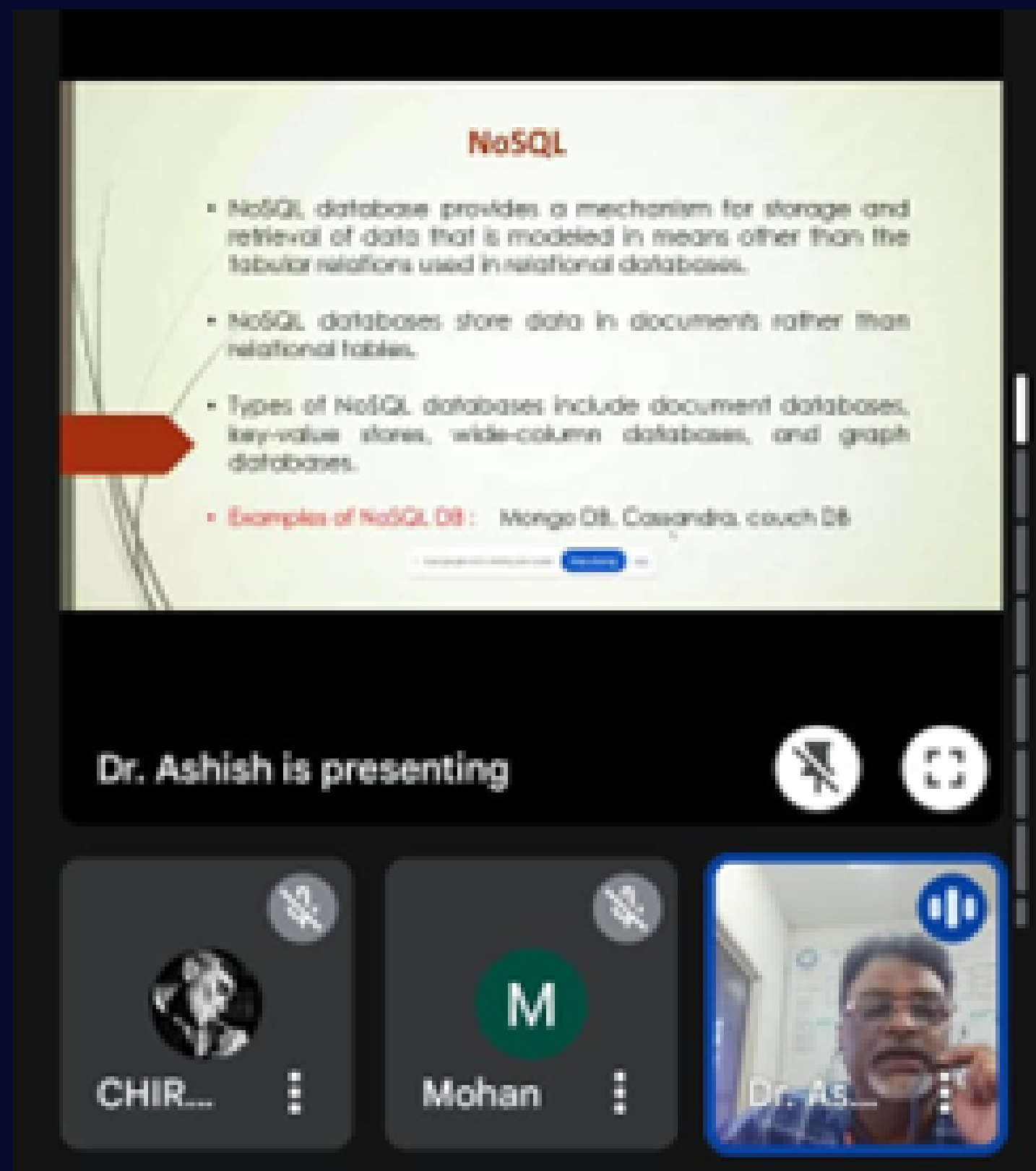
Expert Lecture

Past, Present and Future



The Department of B.Tech CSE - (AI&DS) organized an expert lecture titled "Entrepreneurship: Past, Present, and Future" on 23rd February 2024. The objective of the lecture was to provide a comprehensive analysis of the evolution of entrepreneurship over time, examining its historical roots, current trends, and future prospects. Throughout the session, attendees delved into various aspects, including exploring the historical origins of entrepreneurship from ancient times to the present day, examining the contemporary landscape, analyzing emerging trends and technologies, and identifying critical success factors for entrepreneurial ventures. Additionally, insights and recommendations were offered for policymakers, educators, and aspiring entrepreneurs to foster an ecosystem conducive to entrepreneurial growth and innovation. This lecture served as a valuable platform for attendees to gain a deeper understanding of entrepreneurship, equipping them with knowledge and strategies to navigate the dynamic business environment effectively.

Expert Lecture - MongoDB



The image shows a presentation slide titled "NoSQL" with the following content:

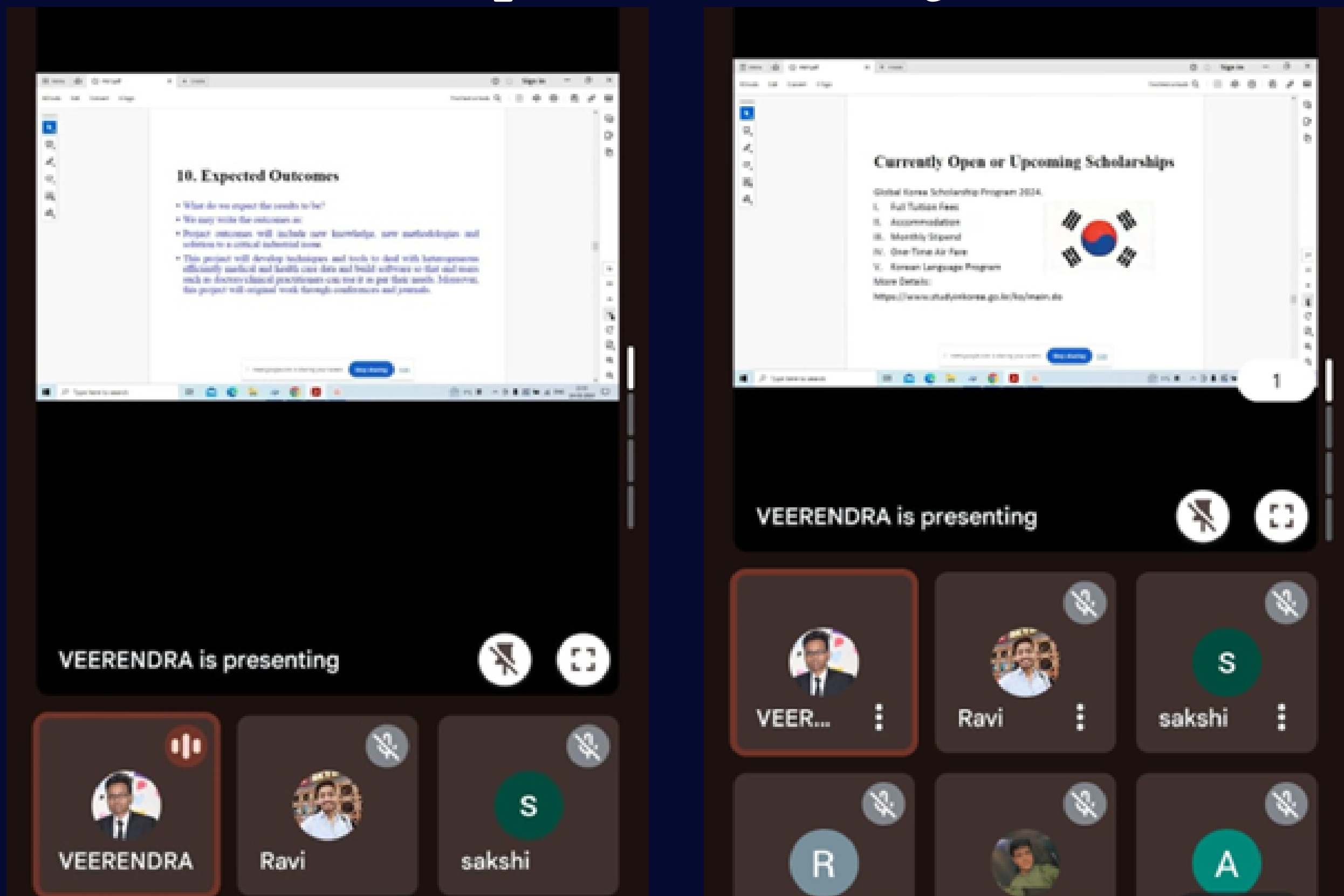
- NoSQL database provides a mechanism for storage and retrieval of data that is modeled in means other than the tabular relations used in relational databases.
- NoSQL databases store data in documents rather than relational tables.
- Types of NoSQL databases include document databases, key-value stores, wide-column databases, and graph databases.
- **Examples of NoSQL DB:** Mongo DB, Cassandra, couch DB

Below the slide, a video conference interface is visible, showing "Dr. Ashish is presenting" and three participants: "CHIR...", "Mohan", and "Dr. AS...".

The Department of B.Tech CSE - (AI&DS) organized an expert lecture titled "MongoDB: Overview, Concepts, and Query Operations" on 4th March 2024. The objective of the lecture was to provide a comprehensive understanding of MongoDB, encompassing its fundamental concepts, key features, and query operations. The session aimed to equip attendees with essential knowledge about MongoDB's architecture and data modeling principles, as well as how to efficiently perform various query operations within a MongoDB database environment. This lecture offered valuable insights into MongoDB, enhancing participants' ability to work effectively with this NoSQL database.

Expert Lecture

Research Proposal and Study Abroad



The Department of B.Tech CSE - (AI&DS) organized an expert lecture titled "Research Proposal and Study Abroad" on 24th February 2024. The objective of the lecture was to outline a comprehensive plan for conducting academic research abroad. The session aimed to help participants define their research area, conduct a thorough literature review, and develop clear research questions or hypotheses. Additionally, it covered designing an appropriate research methodology, planning the study abroad experience, securing funding, and addressing ethical considerations. The lecture also focused on outlining expected research outcomes, creating a realistic timeline, and preparing for the dissemination of findings through academic publications and presentations. This session provided valuable guidance for students and researchers planning to conduct research abroad, equipping them with the necessary tools and strategies for a successful research project and study abroad experience.

Baisakhi Celebration



The Department of B.Tech CSE - (AI&DS) celebrated Baisakhi on 22nd April 2024. The objective of this is to provide a comprehensive analysis and documentation of the Baisakhi event. Through this, we aim to highlight the cultural diversity celebrated during the event, examine the activities and performances that took place, assess the impact on participants and attendees, and provide recommendations for future Baisakhi celebrations. Additionally, Baisakhi Celebration fosters intercultural communication and dialogue, creating a conducive environment for individuals to exchange ideas, perspectives, and experiences. Furthermore, participation in Baisakhi Celebration encourages active learning through hands-on experiences and immersive activities.

Results were as follows:

Mr. Ethnic - Vishal Kundu

Dance Competition- 1. Dikshita

Ms. Ethnic - Chanchal

Faculty Achievements

- Dr. B K Verma, Mitu Sehgal, Dr. Shally, Anisha, Hemlata, Ritu, Anju Saini, Aarti and Roshni Jha published a patent on “IOT Based Radiant Baby Warmer” in June,2024.
- Dr. B K Verma, Mitu Sehgal, Dr. Shally, Anisha, Hemlata, Ritu, Anju Saini, Aarti and Roshni Jha published a patent on “IOT Based Laminar Airflow Cabinet” in May,2024.
- Mitu Sehgal authored the paper titled "AI for Tourism: Pioneering New Frontiers in the Industry," presented at the International Conference on Computing Intelligence & Computing Applications in 2024.
- Mitu Sehgal authored the paper titled "Emotionally Intelligent Edtech: A CNN Perspective," presented at the International Conference on Computing Intelligence & Computing Applications in 2024.
- Ms. Hemlata published a paper titled "A Wavelet Inspired Neuro-fuzzy Approach to Forecast Financial Data." in the International Journal for research in technological studies in 2024 (ISSN:2348-1439).

Faculty Achievements

- Dr. B K Verma published a paper titled "Deployment and Use of Dark net on Private Network: The Future of Intrusion Detection System" in the International Journal of Innovative Research in Technology and Management in 2024 (Volume-8, Issue-1, February-2024).
- Dr. B K Verma published a paper titled "A proposed strategy for Reduction in Peak-to-Average Power Ratio with advanced Parallel Anti Interference techniques" in the International Journal of Innovative Research in Technology and Management in 2024 (Volume-8, Issue-2, April-2024).
- Dr. B K Verma published a paper titled "The Examination of Using Business Intelligence Systems by Enterprises in Hungary" in the International Journal of Innovative Research in Technology and Management in 2024 (Volume-8, Issue-3, May-2024).
- Dr. B K Verma published a paper titled "The Examination of Using Business Intelligence Systems by Enterprises in Hungary" in the International Journal of Innovative Research in Technology and Management in 2024 (Volume-8, Issue-3, May-2024).

Faculty Achievements

- Dr. B K Verma published a paper titled "Enhancing Implicit Relations in Wikipedia Mining Using Object Relationship Technique" in the International Journal of Innovative Research in Technology and Management in 2024 (Volume-7, Issue-6, December-2023).
- Dr. B K Verma published a paper titled "Face Recognition Technique based on Wrapping Curvelet Transform" in the International Journal of Innovative Research in Technology and Management in 2024 (Volume-7, Issue-5, October-2023.).

Student Achievement

- Vastav Tailwal, Roll No. 2820396, qualified for the Data Science for Engineers exam, the Gate 2024 exam in Data Science and Artificial Intelligence (DA) in 2024, and the Deep Learning exam in 2024.
- Nipun Rustagi, Roll No. 2820382, qualified for the Gate 2024 exam in Data Science and Artificial Intelligence (DA) in 2024.
- Gaurav, Roll No. 2821469, qualified for the Gate 2024 exam in Computer Science and Information Technology (CS) in 2024.
- Siddharth Aggarwal, Roll No. 2820372, qualified for the XAT 2024 exam in 2024 and the CAT 2024 exam in 2024.
- Saransh, Roll No. 2820366, qualified for the Gate 2023 exam in Computer Science and Information Technology (CS) in 2023.