तमसो मा ज्योतिर्गमय्

Darkness to Light

GEETANJALI INSTITUTE OF TECHNICAL STUDIES

NATIONAL BOARD OF ACCREDITATION

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

E-NEWSLETTER

BITS & BYTES

VOLUME VII ~ ISSUE 1 | JANURARY - JUNE 2023

Director's Desk

Dr. N.S. Rathore

DIRECTOR

I wanted to take a moment to reach out and congratulate you on your pursuit of Computer Science Engineering . I know that this field can be challenging, but I am thrilled that you have chosen to embark on this journey. As your Campus Director, I am here to support and guide you in every step of the way.

As a Computer Science Engineer, you will play a critical role in shaping the future of technology. Every line of code that you write has the potential to make a positive impact on the world, whether it's through creating innovative new software applications or improving existing systems.

I also want to remind you that it's okay to make mistakes, making mistakes is an important part of the learning process. When you encounter a problem, don't get discouraged instead, use it as an opportunity to learn and grow.

Finally, I want to emphasize the importance of perseverance. There will be times when you feel frustrated or overwhelmed, but remember that these feelings are temporary. Stay focused on your goals, and keep pushing forward. The reward of seeing your code come to life is well worth the effort.

HOD's Desk

Dr.Mayank Patel

HOD,DEPARTMENT OF
COMPUTER SCIENCE ENGINEERING

I encourage you to embrace the spirit of lifelong learning,make it a priority to learn new things, whether it's through taking online courses, attending conferences, or participating in coding challenges.Computer Science Engineering is a vast and ever-expanding field, touching virtually every aspect of our lives. From Artificial Intelligence and Data Science to Cybersecurity and Software Engineering, the possibilities are endless.

Competitions are a fantastic way to showcase your skills, learn from others, and challenge yourself. Participating in these competitions can help you develop important skills such as problem-solving, critical thinking, and time management, which will be invaluable throughout your career in Computer Science and Engineering.Even if you don't win every competition, the experience itself can be incredibly rewarding.You'll have the chance to test your skills against other talented students, receive feedback from judges, and learn from your mistakes.

Remember, the most successful Engineers are those who are always seeking to improve their skills and expand their knowledge.

About
Computer Science and Engineering Department

The Department of Computer Science and Engineering educates and conducts research covering wide areas of information science, from fundamental technologies such as software design, object oriented programming, computer architecture, database system, discrete mathematics, and Internet technologies, which support infrastructures of the highly information-oriented society, to applied and advanced technologies including multimedia, robotics, computer vision, data mining, human-machine interface design, computational science, life science, distributed computing, and theoretical computer science.

To achieve our mission, we provide attractive educational programs for students to learn from the basics to advanced technologies related to computer science and engineering. Through our educational programs students are expected to become leading engineers and researchers who are highly motivated and have practical, creative, and management skills to drive an advanced next-generation information society in all industrial fields.

The growth of the department is mainly due to the high quality graduates of the department who are currently working in the industry and pursuing higher education in home and abroad. Most of our graduates are getting employed with in the last trimester of their undergraduate or within a very short period. Our graduates are successfully working in reputed companies and organizations.

Vision of CSE Department

To nurture the students to become employable graduates who can provide solutions to the societal issues through ICT.

Mission of CSE Department

To focus on practical approach towards learning and exposing the students on the latest ICT technologies.

To foster logical thinking among the students to solve real-time problems using innovative approaches.

To provide state-of-the-art resources that contributes to inculcate ethical & life-long learning environment.

PSOs of CSE Department

PSO1: Professional Skills: The ability to understand, analyse and develop computer programs in the areas related to algorithms, system software, multimedia, web design, big data analytics, and networking for efficient design of computer-based systems of varying complexity.

PSO2: Problem-Solving Skills: The ability to apply standard practices and strategies in software project development using open-ended programming environments to deliver a quality product for business success.

PSO3: Successful Career and Entrepreneurship: The ability to employ modern computer languages, environments, and platforms in creating innovative career paths to be an entrepreneur, and a zest for higher studies.

PEOs of CSE Department

PEO1: To enable the students to think out-of-the-box solutions for addressing societal issues through ICT.

PEO2: To impart skills in students to analyze, design and implement Software/Hardware solutions to solve interdisciplinary and complex problems.

PEO3: To expose the students towards effective dissemination of research findings in order to become successful entrepreneurs or to pursue higher education.

Table of Content

Expert Talk

EXPERT TALK
ON
HIGHER EDUCATION POLICUIES AND JOBS IN ABROAD

20 January, 2023

The Department of Computer Science and Engineering organized an Expert Talk on Higher Education Possibilities and Jobs in Abroad.

The program was held on 20th January, 2023 between 11:00 AM to 12:00PM, in offline mode and the resource person was Mr. Anuj Parikh, Managing Director, Disha Consultancy, Ahmedabad to aware students about many opportunities regarding jobs and higher education in abroad.

The programme was started by Ms. Ruchi Vyas, Assistant Professor,CSE, the Event Coordinator, by welcoming all the cherished dignitary and participants. In welcome speech Dr. Mayank Patel, HOD CSE, GITS, shared his views with the participants that if they want to build their start ups the only thing required is determination and confidence.

After that Mr. Anuj Parikh briefly explained about various countries giving opportunities to study .He also explained about various scholarships that a student can avail to study in abroad. He distinguished between Canada and USA on terms of studying, jobs, university validation ,eligibility, cost, job assurance and many more factors.. he also discussed about various jobs that are available globally. He discussed about many job profiles/designations that a person can apply. He briefly discussed about the procedure to apply for student VISA for studying in abroad. The programme was concluded by discussing about DISHA consultancy ,who helps students to guide for career and study in abroad.

Then Dr. Mayank Patel, HOD CSE, summarized the outcomes of talk. All participants appreciated the department for organizing such type of Expert talk. The program was ended with vote of thanks by Dr. Mayank Patel.

EXPERT TALK
ON
MICROSOFT AZURE LOGIC APPS

21 March, 2023

The Department of Computer Science and Engineering organized an Expert Talk on Microsoft Azure Logic Apps.

The program was held on 21st March, 2023 from 11 AM Onwards in offline mode and the resource person was Mr. Kush Sharma, Senior Cloud Consultant to enhance student's knowledge on Microsoft Azure.

The programme was started by Ms. Ruchi Vyas, Assistant Professor, CSE, and the Event Coordinator, by welcoming all the cherished dignitary and participants. In welcome speech Dr. Mayank Patel, HOD CSE, GITS, shared his views with the participants on the importance of cloud computing.

After that Mr. Kush Sharma discussed about the Microsoft Azure. He stated that Azure's plan involves physical security for its global data center infrastructure, and following a mandatory Security Development Lifecycle for all product updates. Customer data is protected using a four-pronged approach: segregation, encryption, redundancy, and destruction. Everything from files to applications are encrypted both at transit and at rest.With automated monitoring, security scoring, and a wide array of both security and compliance tools, you are protected at every touch point and have the tools needed for security visibility into your data, applications, and activity.

Azure is a cloud computing platform and infrastructure created by Microsoft for building, deploying, and managing applications and services. Azure offers various compute services for hosting applications and services, including Virtual Machines, App Services, Functions, and Batch.

गिट्स : स्टूडेंट्स को एआई रेडी बनाने के प्रयास जारी

ब्यूरो नवज्योति/ उदयपुर। गीतांजलि इंस्टीट्यूट ऑफ टेक्निकल स्टडीज में कम्प्यूटर साइंस इंजीनियरिंग के तत्वाधान में माइक्रोसॉफ्ट सर्टिफाइड ट्रेनर द्वारा अजोर ऑपन सोर्स डे- इंडिया टूर पर एक दिवसीय कार्यशाला हुई। निदेशक डॉ. एनएस राठौड ने बताया कि आज दुनिया में कोई भी क्षेत्र आर्टिफिशियल इंटेलीजेंस (एआई) से अछूता नहीं हैं। एआई, मेडिकल, शिक्षा, टेक्नोलॉजी व रिसर्च आदि में दिन प्रतिदिन अपनी छाप छोड़ रहा है। गिट्स अपने छात्रों को एआई रेडी होने के लिए शुरू से ही प्रशिक्षित कर रहा है।

The platform provides a wide range of services to support different types of applications and use cases, making it a popular choice for businesses looking to adopt cloud computing. Secure, develop, and operate infrastructure, apps, and Azure services anywhere.

Ms. Ruchi Vyas, Event coordinator, summarized the outcomes of talk. All participants appreciated the department for organizing such type of Expert talk. The program was ended with vote of thanks by Dr. Mayank Patel. Through this session students were able to understand how to work on Microsoft azure and avail its benefits.

EXPERT TALK
ON
MICROSOFT AZURE FUNCTIONS

21 March, 2023

The Department of Computer Science and Engineering organized an Expert Talk on Microsoft Azure Functions.

The program was held on 21st March, 2023 from 11 AM Onwards in offline mode and the resource person was Mr. Love Sharma, Senior Cloud Consultant, Microsoft Certified Trainer, to enhance student's knowledge on Microsoft Azure.

The programme was started by Ms. Ruchi Vyas, Assistant Professor, CSE, and the Event Coordinator, by welcoming all the cherished dignitary and participants. In welcome speech Dr. Mayank Patel, HOD CSE, GITS, shared his views with the participants on the importance of cloud computing.

After that Mr. Love Sharma stated that Azure's plan involves physical security for its global data center infrastructure, and following a mandatory Security Development Lifecycle for all product updates. Customer data is protected using a four-pronged approach: segregation, encryption, redundancy, and destruction. Everything from files to applications are encrypted both at transit and at rest.With automated monitoring, security scoring, and a wide array of both security and compliance tools, you are protected at every touch point and have the tools needed for security visibility into your data, applications, and
activity.

माइक्रोसॉफ्ट सर्टिफाइड ट्रेनर ने दी अजोर ऑपन सोर्स डे इण्डिया टूर पर कार्यशाला में प्रशिक्षण

महानगर संवाददाता

उदयपुर। गीतांजलि इन्स्टीट्यूट ऑफ टेक्निकल स्टडीज डबोक में कम्प्यूटर साईंस इन्जीनियरिंग के तत्वावधान में माइक्रोसॉफ्ट सर्टिफाइड ट्रेनर द्वारा अजोर ऑपन सोर्स डे- इण्डिया टूर पर एक दिवसीय कार्यशाला की गई।संस्थान के निदेशक डॉ. एनएस राठौड़ ने बताया कि आज दुनिया में कोई भी क्षेत्र आर्टिफिशियल इन्टेलीजेंस (एआई) से अछूता नहीं है।

एआई मेडिकल, शिक्षा, टेक्नोलॉजी व रिसर्च आदि में दिन प्रतिदिन अपनी छाप छोड़ रहा है। गिट्स अपने छात्रों को एआई रेडी होने के लिए शुरू से ही प्रशिक्षित कर रहा है। आज लेंग्वेज विशेषज्ञ नई नई लेंग्वेज डवलप कर रहे हैं। एल्गोरिथम विशेषज्ञ नई नई एल्गोरिथम डवलप कर रहे हैं। तकनीकी के साथ कंधे से कंधा मिलाकर चलने तथा विद्यार्थियों में इनोवेशन विकसित करने, तकनीकी आदान प्रदान हेतु माइक्रोसॉफ्ट सर्टिफाइड ट्रेनर्स ने कार्यशाला में प्रशिक्षण दिा। कम्प्यूटर साईंस इन्जीनियरिंग विभागाध्यक्ष डॉ. मयंक पटेल के अनुसार कार्यशाला में विद्यार्थियों को माइक्रो सॉफ्ट के सीनियर क्लाउड कन्सलटेंट लव शर्मा, कुश शर्मा द्वारा एप्लीकेशन बिल्डिंग इनोवेशन फीचर, डाटा प्रोटेक्ट, इन्टेलीजेंट एप डवलपमेंट करने के साथ क्लाउड कम्प्यूटिंग, लो कोड, नो कोड टूल, वर्क फ्लो, इन्टीग्रेशन अकाउण्ट आदि पर हेण्ड्स ऑन प्रेक्टिस कराया गया। संचालन छात्रा हितीक्षा ने किया।

Azure is a cloud computing platform and infrastructure created by Microsoft for building, deploying, and managing applications and services. Azure offers various compute services for hosting applications and services, including Virtual Machines, App Services, Functions, and Batch. The platform provides a wide range of services to support different types of applications and use cases, making it a popular choice for businesses looking to adopt cloud computing. Secure, develop, and operate infrastructure, apps, and Azure services anywhere.

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EXPERT TALK
ON
ENHANCING HUMANNESS IN FUTURE GENERATION CYBER PHYSICAL SYSTEMS

14 June, 2023

The Department of Computer Science and Engineering organized an Expert Talk on Enhancing Humanness in Future Generation Cyber Physical Systems. The program was held on 14th June, 2023 from 10 AM to 12 Noon in offline mode and the resource person was Dr. Heena Rathore, Assistant Professor, Texas State University, San Marcos, Texas. To aware participants about enhancing humanness in machines to develop noble Cyber Physical Systems..

The programme was inagurated by Dr. Mayank Patel, HOD CSE, by welcoming all the cherished dignitaries and participants. In welcome speech Dr. N.S. Rathore, Campus Director GITS, addressed the gathering and shared his thoughts about inculcating emotions, spirituality, stability, eagerness, and a sense of manhood in machines, just like in human beings.

He enlightened the importance of Humanness in machines by giving an example of a humanoid robot's addressing in UK parliament and how people lost attention from the robot due to a lack of emotions and empathy. He also suggested the idea to train machines to remedy loneliness in human beings.

After Director sir's speech, Dr. Heena Rathore enlightened the participants by discussing the Cyber Physical System, its applications, and the challenges associated with it. She gave valuable insights about the Robotic Surgery taking place in the U.S. and how the patients are facing emotional, tactical feedback, and non-verbal related challenges with the robot surgeons.

She also explained the shortcomings of self-driving cars and the lack of visual and listening capabilities of machines by giving some interesting examples. She elaborated on the need for machines to be more efficient, noble, and cognitive to build a notion of trust. She concluded the session by explaining the Machine Learning models and how Cognitive Inspired Reinforcement Learning can be used in Cyber Physical Systems to overcome challenges.

It was a very illuminating session, and the participants were able to understand the importance of AI, Large Language Models, and the use of Cognitive Computing to innate humanness in machines in the future of modern society. And 80 participants participated in this session.

Then Dr. Mayank Patel, HOD CSE, summarized the outcomes of the talk. All participants appreciated the department for organizing such type of Expert talk. The program was ended with vote of thanks by Dr. Mayank Patel.

With the help of this session students were able to know the importance of incorporating humanness in Cyber Physical System.

प्रातःकाल

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साइबर फिजिकल सिस्टम आधुनिक सोसायटी का भविष्य : डॉ. हिना राठौड़

उदयपुर (वि)। आज मानव जीवन एवं कम्प्यूटर एक सिक्के के दो पहलू हो चुके हैं। संसार का हर मनुष्य किसी न किसी रूप में कम्प्यूटर का प्रयोग कर रहा हैं। ऑफिस के साथ-साथ अब यह अपने व्यवहारिक जीवन से जुडते जा रहा हैं। कम्प्यूटेशन और भौतिक प्रक्रियाओं के एकीकृत करने में साईबर फिजीकल प्रणाली एक नई ताकत के रूप में उभर रहा हैं। इस उभरती तकनीक को व्यवहारिक रूप से समझने एवं समझाने के लिए गीतांजली इन्स्टिट्यूट ऑफ टेक्नीकल स्टडीज डबोक उदयपुर (गिट्स) उदयपुर के कम्प्यूटर साईंस इन्जिनियरिंग विभाग के तत्वाधान में एनहेंसिंग ह्यूमनेस इन फ्यूचर जनरेशन साइबर फिजीकल सिस्टम पर एक दिवसीय एक्सपर्ट टॉक का आयोजन किया गया। इस एक्सपर्ट टॉक में टेक्सास यूनिवर्सिटी यू.एस.ए. की असिस्टेंट प्रोफेसर डॉ. हिना राठौड ने मुख्य वक्ता के तौर पर भाग लिया।

संस्थान निदेशक डॉ. एन. एस. राठौड ने साईबर फिजीकल प्रणाली पर ध्यान आकर्षित करते हुए कहा कि भारत में यह तकनीक शुरूआति दौर में है जबकि विकसित देशों में यह तकनीक व्यवहारिक जीवन में बड़े स्तर पर प्रयोग की जा रही हैं। ऐसे में मुख्य समस्या यह हैं कि हम अपने आवश्यकतानुसार रोबोट तो बना लेंगे लेकिन उसमें भावनात्मकता, मानवता एवं आध्यात्मिकता कहां से लायेंगे। डॉ. हिना राठौड ने बताया कि साईबर फिजीकल प्रणाली के मुख्य घटक साईबर नेटिक्स, मेकोट्रोनिक्स, डिजाइन एवं एम्बेडेड सिस्टम, आई.ओ.टी., बिग डेटा और आर्टिफिशियल इन्टेलीजेंस के साथ-साथ कम्प्यूटर आधारित एल्गोरिथम हैं। इन्हीं घटकों का प्रयोग करके मशीनों में भावनात्मकता, मानवता एवं आध्यात्मिकता डालने की कोशिश की जा रही हैं। धन्यवाद कम्प्यूटर साईंस इंजीनियरिंग विभागाध्यक्ष डॉ. मंयक पटेल द्वारा किया गया तथा संचालन छात्रा हितांशी द्वारा किया गया।

साइबर फिजिकल सिस्टम आधुनिक सोसायटी का भविष्य : डॉ. हिना राठौड़

महानगर संवाददाता

उदयपुर। आज मानव जीवन एवं कम्प्यूटर एक सिक्के के दो पहलू हो चुके हैं। हर मनुष्य किसी न किसी रूप में कम्प्यूटर का प्रयोग कर रहा हैं। कम्प्यूटेशन और भौतिक प्रक्रियाओं के एकीकृत करने में साईबर फिजीकल प्रणाली एक नई ताकत के रूप में उभर रहा हैं। इस उभरती तकनीक को व्यवहारिक रूप से समझने एवं समझाने के लिए गीतांजली इन्स्टिट्यूट ऑफ टेक्नीकल स्टडीज डबोक उदयपुर (गिट्स) उदयपुर के कम्प्यूटर साईंस इन्जिनियरिंग विभाग के तत्वाधान में ''एनहेंसिंग ह्यूमनेस इन फ्यूचर जनरेशन साइबर फिजीकल सिस्टम'' पर एक दिवसीय एक्सपर्ट टॉक का आयोजन किया गया। इस एक्सपर्ट टॉक में टेक्सास यूनिवर्सिटी यू.एस.ए. की असिस्टेंट प्रोफेसर डॉ. हिना राठौड ने मुख्य वक्ता के तौर पर भाग लिया।

संस्थान के निदेशक डॉ. एन. एस. राठौड ने साईबर फिजीकल प्रणाली पर ध्यान आकर्षित करते हुए कहा कि भारत में यह तकनीक शुरूआति दौर में है जबकि विकसित देशों में यह तकनीक व्यवहारिक जीवन में बड़े स्तर पर प्रयोग की जा रही हैं। ऐसे में मुख्य समस्या यह हैं कि हम अपने आवश्यकतानुसार रोबोट तो बना लेंगे लेकिन उसमें भावनात्मकता, मानवता एवं आध्यात्मिकता कहां से लायेंगे। यह दुनिया की सबसे बड़ी चुनौती हैं। टेक्सास यूनिवर्सिटी यू.एस.ए. की असिस्टेंट प्रोफेसर डॉ. हिना राठौड ने मुख्य वक्ता के रूप में आंमत्रित किया गया। जहां पर मुख्य वक्ता डॉ. हिना राठौड ने बताया कि साईबर फिजीकल प्रणाली के मुख्य घटक साईबर नेटिक्स, मेकोट्रोनिक्स, डिजाइन एवं एम्बेडेड सिस्टम, आई.ओ.टी., बिग डेटा और आर्टिफिशियल इन्टेलीजेंस के साथ-साथ कम्प्यूटर आधारित एल्गोरिथम हैं। इन्हीं घटकों का प्रयोग करके मशीनों में भावनात्मकता, मानवता एवं आध्यात्मिकता डालने की कोशिश की जा रही हैं। इसका उपयोग कृषि, जल, ऊर्जा परिवहन (ड्राइवर रहित कार), बुनियादी ढांचे के विकास, सुरक्षा एवं स्वास्थ्य आदि के क्षेत्र में नवाचार लाने के लिए किया जायेगा। अंत में धन्यवाद ज्ञापन कम्प्यूटर साईंस इन्जिनियरिंग विभागाध्यक्ष डॉ. मंयक पटेल द्वारा किया गया, तथा संचालन छात्रा हितांशी द्वारा किया गया। इस अवसर पर वित्त नियंत्रक बी.एल. जांगिड सहित पूरा गीतांजली परिवार भविष्य में आने वाली तकनीक से रूबरू हुए।

साइबर फिजिकल सिस्टम पर एक्सपर्ट टॉक

उदयपुर. गीतांजलि इंस्टीट्यूट ऑफ टेक्नीकल स्टडीज डबोक के कम्प्यूटर साइंस इंजीनियरिंग विभाग के तत्वावधान में एनहेंसिंग ह्यूमनेस इन फ्यूचर जनरेशन साइबर फिजिकल सिस्टमद्यद्य पर एक दिवसीय एक्सपर्ट टॉक का आयोजन किया गया। इस एक्सपर्ट टॉक में टेक्सास यूनिवर्सिटी यू.एस.ए. की असिस्टेंट प्रोफेसर डॉ. हिना राठौड ने मुख्य वक्ता के तौर पर भाग लिया। डॉ. राठौड ने बताया कि साइबर फिजिकल प्रणाली के मुख्य घटक साइबर नेटिक्स, मेकोट्रोनिक्स, डिजाइन एवं एम्बेडेड सिस्टम, आई.ओ.टी., बिग डेटा और आर्टिफिशियल इंटेलिजेंस के साथ-साथ कम्प्यूटर आधारित एल्गोरिथम है। इस मौके पर प्रो. एनएस राठौड़, डॉ. मंयक पटेल, बी.एल. जांगिड आदि मौजूद रहे।

Workshop

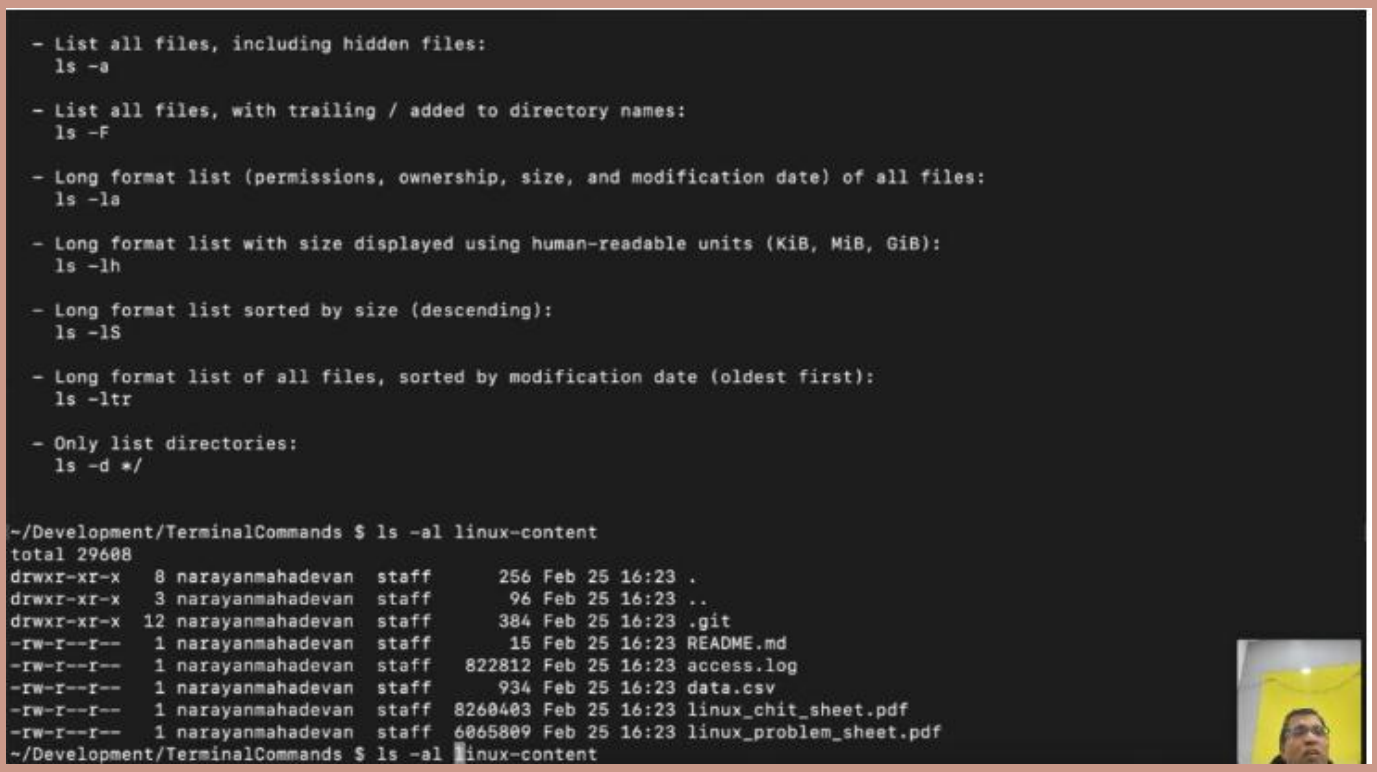
WORKSHOP
ON
LINUX TERMINAL COMMANDS

25 February, 2023

Department of Computer Science and Engineering and BridgeLabz Oragnised a workshop on “Linux-Terminal Commands”.The event was conducted in online mode with the help of Mr. Narayan Mahadevan (Founder, CEO, BridgeLabz) to make our students aware about linux-terminal commands.The event coordinators were Dr. Mayank Patel (HOD,CSE Departmentand) and Mr.Jitendra Sharma(Assistant professor,CSE)

Mr. Narayan Mahadevan briefly explained about the basic linux terminal commands and coderwallah CURD commands for files and directories. Also, about the use cases in the form of BRD and tldr pages. He also discussed the benefits of open source, Interview prep and AI/ML libraries. Mr. Narayan Mahadevan discussed how to execute, find, exec, pipe and awk commands.

Students have got clear idea about the areas and scope of the workshop about linux terminal commands and its real life applications.

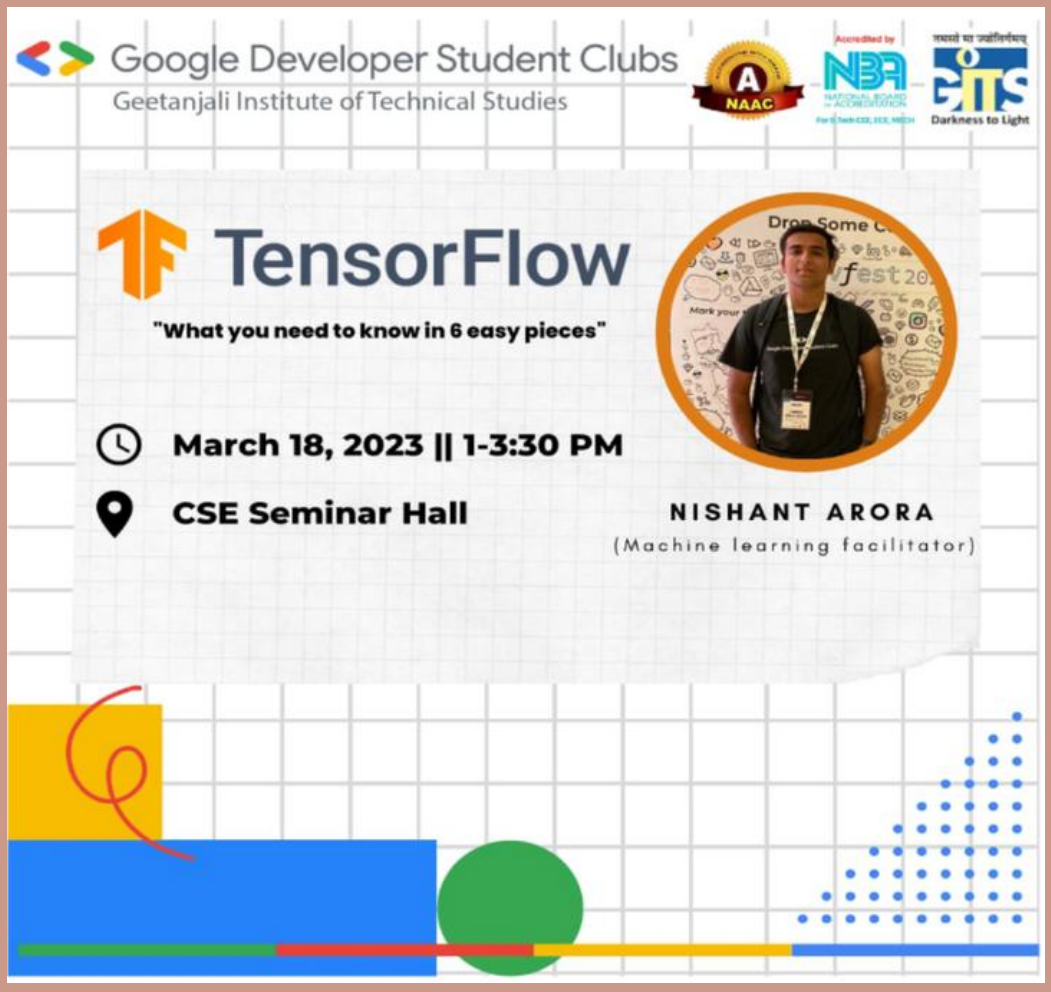


After this lecture, students will be able to know about “Linux-Terminal Commands “.

WORKSHOP ON TENSORFLOW

18 March, 2023

Department of Computer Science and Engineering and GDSC oragnised a workshop on “Tensorflow”.The event was conducted in offline mode with the help of GDSC and Department of Computer Science.The event coordinators were GDSC Core Team.The keynote speaker was Nishant Arora.The objective of workshop on Tensor Flow was to provide students with a comprehensive understanding of this powerful machine learning framework and its applications.



The ingauration of the session was done by Dr Mayank Patel(HOD,CSE,GITS) and Ms Ruchi Vyas (Assistant Professor of CSE). This workshop aimed to equip participants with the skills and knowledge necessary to harness the power of Tensor Flow for various applications.

The event featured hands-on session led by core team member of GDSC, Nishant Arora, covering topics such as neural networks, deep learning, and natural language processing. Participants had the opportunity to delve into practical exercises, enabled them to build and train their own models using Tensor flow. Additionally, the workshop fostered a collaborative environment, encouraging networking and knowledge exchanging among the attendees. By the end of the event, participants gained some valuable insights into Tensor Flow, empowering them to embark on exciting machine learning projects and careers.

WORKSHOP
ON
MENTORKART RESUME BUILDING

3 April, 2023

Department of Computer Science & Engineering organised Resume Building Exercise with Mentorkart completely free of charge for all GITS students.Resume Building Exercise included a live session by Heena Kumari, an expert mentor, who provided valuable tips and insights on creating effective resumes. Students got the opportunity to put these tips into practice by using AI-based Resume Builder tool on their platform.

The Resume Building Exercise was designed to be interactive and user-friendly, providing students with the guidance and support they needed to create professional resumes that showcase their skills and accomplishments.

WORKSHOP
ON
WEKA AND BLOCKCHAIN TECHNOLOGY

24 - 27 April, 2023

Department of Computer Science and Engineering organised a 4-days workshop on Data Mining using Weka and Blockchain Technology. Ms. Meenal Joshi (Assistant Professor, CSE) and Mr. Rakshit Kothari (Assistant Professor, CSE) took the workshop in offline mode with 32 participants.

The workshop on Data Mining and Blockchain Technology provided an overall basic introduction to two cutting-edge technologies, equipping participants with valuable insights into turning raw data into useful information and exploring the potential of Blockchain in real-world organizations. The event was organized to enhance their understanding and implementation of these transformative technologies.

The session commenced with an in-depth exploration of Data Mining, highlighting its significance in enabling companies to optimize marketing strategies, increase sales, and reduce costs. Utilizing the WEKA software, participants engaged in practical exercises that demonstrated various mining algorithms and honed their skills in handling input and output files efficiently.

Subsequently, the workshop transitioned into an overall introduction to Blockchain Technology, emphasizing its decentralized and transactional data-sharing capabilities. Through hands-on activities using Remix - Ethereum IDE for Solidity, attendees gained practical experience in implementing Blockchain within their organizations, enabling them to comprehend its potential applications in their respective sectors.

To ensure the workshop's effectiveness, the prerequisites for participants included a comfort level with operating systems such as Linux, Unix, Windows, Solaris, or MacOS. Moreover, familiarity with key topics, such as Machine Learning, Database Management Systems (DBMS), Statistics, Data Structures and Algorithms (DSA), Problem Solving Ability, Security, Cryptography, and Cryptocurrency, was essential. Basic knowledge of at least one additional programming language, such as JavaScript or C++, proved beneficial in maximizing the learning experience.

The workshop's objectives encompassed acquainting students with fundamental Data Mining concepts, demonstrating mining algorithms on real-world data, and providing insights into future trends in the field. Furthermore, the session aimed to disseminate knowledge of Blockchain Technology, analyze its implications on security, evaluate its current status and maturity, and foster discussions about ongoing development and research work, both in India and globally.

In conclusion, the workshop successfully accomplished its goals by delivering valuable insights into Data Mining and Blockchain Technology. Attendees left with enhanced skills and knowledge, prepared to leverage these technologies in their organizations to drive innovation and gain a competitive advantage in the dynamic business landscape

Training

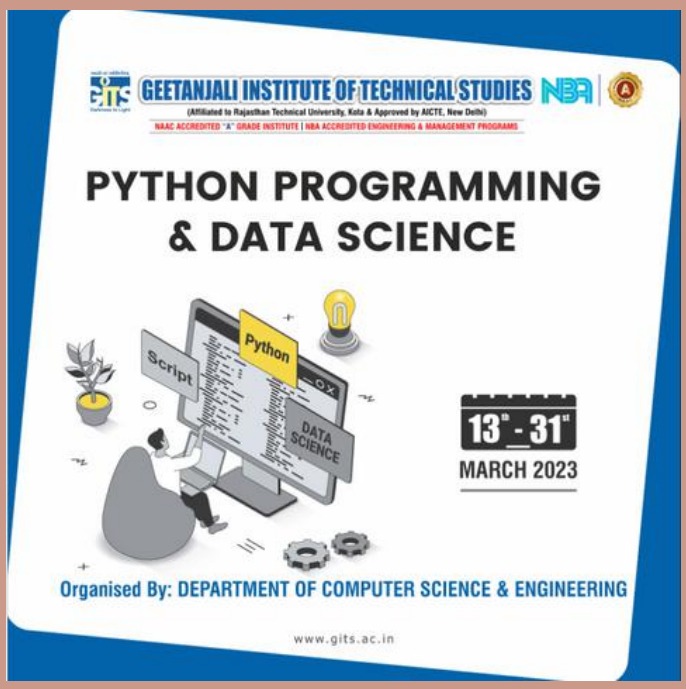
TRAINING
ON
PYTHON PROGRAMMING AND DATA SCEINCE

13 - 31 March, 2023

Department of Computer Science & Engineering conducted an offline training on Python Programming and Data Science for III year students from 13th may to 31st march,2023. the event was coordinated by Ms. Payal Sachdev (Assistant Professor, CSE) and Mr. Jitendra Sharma(Assistant Professor, CSE). Training was resourced by Mr. Vijay Soni, corporate Trainer, having experience of 20+ years. 70 students participated in this training.

In the training students were introduced to the concept of Data Science that is Data Science as a multi-disciplinary subject that uses mathematics, statistics, and computer science to study and evaluate data. The key objective of Data Science is to extract valuable information for use in strategic decision making, product development, trend analysis, and forecasting. Data Science concepts and processes are mostly derived from data engineering, statistics, programming, social engineering, data warehousing, machine learning, and natural language processing.

And further moving on, the students were introduced to the key techniques that uses big data analysis, data extraction and data retrieval. Data science is the field of study that combines domain expertise, programming skills, and knowledge of mathematics and statistics to extract meaningful insights from data.The Inaugural function on 13/03/2023, following were present.Dr. Narendra Singh Rathore, Director, GITS, Dr. Mayank Patel, HOD CSE, GITS, Mr. Vijay Soni, Corporate Trainer, Experience 20+ Years (Resource Person) with all the HODs of GITS and al the faculties of CSE Department and students.



The program started with Ms. Akshali Jain, student B.Tech CSE, welcomed all the cherished dignitaries and participants. Then Dr. Mayank Patel, HOD, CSE inaugurated the programme by briefing the program and welcoming the eminent speakers.

Dr. Narendra Singh Rathore, Director, GITS also shared his valuable views on importance of Programming in Python and Data Science and congratulated Department of CSE for organising such events.

Introduction to Python, Understanding Operators, Variables and Data Types, Conditional Statements, Looping Constructs, Functions, Data Structure, Lists, Dictionaries, Understanding Standard Libraries in Python, reading a CSV File in Python, Data Frames and basic operations with Data Frames, Indexing Data Frame.

Introduction to Data Science, Mathematical ,Statistical Skills, Machine Learning, Coding Algorithms used in Machine Learning, Statistical Foundations for Data Science, Data Structures Algorithms, Scientific Computing, Optimization Techniques, Data Visualization.

Receiving an overwhelming response from students, training came to an end with valedictory session on 03-04-2023. Event coordinator summarized the outcomes of the Training. All the participants appreciated the department for organizing such type of training. The program was ended with vote of thanks by Dr. Mayank Patel, HOD CSE, GITS. After completion of training, audience understood about the importance of Programming in Python and Data Science.

TRAINING
ON
PYTHON PROGRAMMING

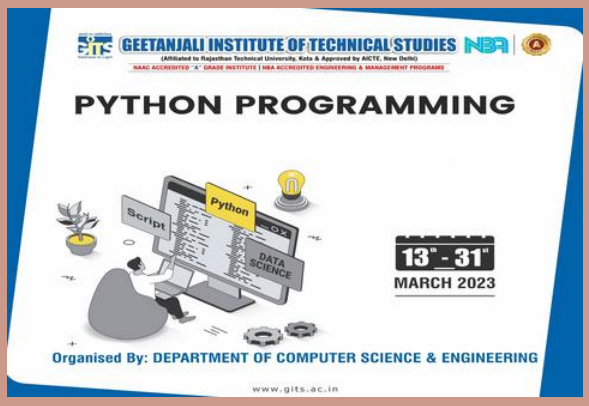
13 - 31 March, 2023

Department of Computer Science and Engineering for II Year CSE students organised an offline training on python programming from 13th to 31st march. Mr. Anup Verma, Corporate Trainer at RCPL, Collaboration with IIT Kanpur, made students understand why Python is a useful scripting language for developers and how to design Python applications.

200 students participated in the training with the event coordinators Ms. Charu Kavadia, Ms. Ruchi Vyas and Mr. Bhupendra Kumar Teli respectively.

In the Inaugural function- Dr. Narendra Singh Rathore(Director, GITS),Dr. Mayank Patel(HOD CSE, GITS) and All the faculties of CSE Department and students were present.

The programme started with the comparing of Ms. Hitiksha Manoti(student B.Tech CSE).She welcomed all the cherished dignitaries and participants. Then Dr. Mayank Patel, HOD, CSE and Dr. Paras Kothari, HOD, MCA inaugurated the programme by briefing the program and welcoming the eminent speakers. Dr. Narendra Singh Rathore, Director, GITS also shared his valuable views on importance of Web Development and congratulated Department of CSE and MCA for organising such events.



Content delivered during Training included: -

1. An Introduction to PYTHON
2. Language fundamentals
3. Flow Control and syntax
4. Python Data Structures
5. Functions
6. Modules and Packages
7. Files and Directories
8. Object Oriented Programming approach in Python
9. Database PyMysql
10. Advance Concept of Python
11. Exception Handling
12. Scientific Computing with NumPy
13. Data Visualization in Python Matplotlib

Valedictory Session was held at CSE Seminar Hall on 29/3/23 where Dr. Mayank Patel,HOD, CSE summarized the learnings at the training, he thanked the trainer for the remarkable training sessions held where students have given overwhelming response about the training. He also extended his gratitude towards Dr N.S.Rathore Sir ,Director GITS for providing his support.

After completion of training, audience understood about the importance of Python Programming and understand Language fundamentals their Flow Control and syntax, Python Data Structures, Functions and how to build python applications.

TRAINING
ON
WEB DEVELOPMENT THROUGH ASP.Net USING C#

1- 31 May, 2023

Department of Computer Science & Engineering for II Year CSE students conducted an offline training on Web Devlopment through ASP.NET using C# from 1st may to 31st may,2023.Training was resourced by Mr. Vijay Soni, Corporate Trainer, having experience of 15 + Years. The event was coordinated by Ms. Charu Kavadia, Assistant Professor, CSE, Ms. Ruchi Vyas, Assistant Professor, CSE and Mr. Pankaj Vaishnav, Assistant Professor, CSE. 200 students participated in this training.

This training on Web Development through ASP.Net using C# aims to make students aware about website development, API system, auto mail generation, captcha designing. This training also makes students acquainted with security systems, web configuration, master page designing, database handling with SQL and SQL server and templates designing. Students learnt about HTML, CSS and JavaScript also during the training.

In the Inaugural function on 1/5/23, following were present: Dr. Narendra Singh Rathore, Director, GITS, Dr. P.K Jain, Director, MBA, GITS ,Mr. Vijay Soni, Corporate Trainer, having experience of 20+ Years (Resource Person), Mr. B.L Jangir, Finance Controller GITS, Mr. Arvind Pemawat, Head Training and Placement, GITS, Dr. Mayank Patel, HOD CSE, GITS, Dr. Paras Kothari, Professor and HOD, MCA, GITS with all the HODs of GITS and All the faculties of CSE Department and students.

The program started with the comparing of Ms. Hitiksha Manoti, student B.Tech CSE, she welcomed all the cherished dignitaries and participants. Then Dr. Mayank Patel, HOD, CSE and Dr. Paras Kothari, HOD, MCA inaugurated the programme by briefing the programme and welcoming the eminent speakers. Dr. Narendra Singh Rathore, Director, GITS also shared his valuable views on importance of Web Development and congratulated Department of CSE andMCA for organizing such events.

Training covered following things- HTML, CSS, JavaScript,Website Development,API System ,Auto Mail Generation, Captcha Designing, Security Systems, Web Configuration, Master Page Designing, Database handling with SQL and SQL server, Templates Designing.

Receiving an overwhelming response from students, FDP came to an end with valedictory session on 31/5/23. Event coordinator summarized the outcomes of the training. All the participants appreciated the department for organizing such type of training. The program was ended with vote of thanks by Dr. Mayank Patel, HOD CSE and Dr. Paras Kothari, HOD MCA, GITS.

After completion of training, audience understood about the importance of Web Development through ASP.Net using C#

TRAINING ON PROGRAMMING EXCELLENCE THROUGH .NET

1-18 May, 2023

Department of Computer Science & Engineering for III Year CSE students conducted an offline training on Programming Excellence Through .NET from 1st may to 18th may,2023.Training was resourced by Mr. Rajendra Deopura, Corporate Trainer, having experience of 20+ years. 60 students participated in this training.

This training on Web Development through ASP.Net using C# aimed to make students aware about website development, API system, auto mail generation, captcha designing. This training also makes students acquainted with security systems, web configuration, master page designing, database handling with SQL and SQL server and templates designing. Students learnt about HTML, CSS and JavaScript also during the training.

In the Inaugral function on 1/5/23, following were present Dr. Narendra Singh Rathore, Director, GITS with Dr. P.K Jain, Director, MBA, GITS, Mr. Rajendra Deopura, Corporate Trainer, having experience of 20+ Years (Resource Person), Mr. B.L Jangir, Finance Controller GITS, Mr. Arvind Pemawat, Head Training and Placement, GITS, Dr. Mayank Patel, HOD CSE, GITS.

With All the HODs of GITS and All the faculties of CSE Department and students. The program started with the comparing of Ms. Ishita Choubisa, student B.Tech CSE, she welcomed all the cherished dignitaries and participants. Then Dr. Mayank Patel, HOD, CSE inaugurated the programme by briefing the programme and welcoming the eminent speakers. Dr. Narendra Singh Rathore, Director, GITS also shared his valuable views on importance of Web Development and congratulated Department of CSE for organizing such events.

Training covered following things- HTML ,CSS, JavaScript, Website Development, API System, Auto Mail Generation, Captcha Designing, Security Systems, Web Configuration, Master Page Designing, Database handling with SQL and SQL server, Templates Designing.

Receiving an overwhelming response from students, training came to an end with valedictory session on 18-05-2023. Event coordinator summarized the outcomes of the Training. All the participants appreciated the department for organizing such type of trainings. The program was ended with vote of thanks by Dr. Mayank Patel, HOD CSE, GITS. After completion of training, audience understood about the importance of Programming Excellence through .NET.

Faculty Development Program

RDBMS WITH SQL SERVER

17- 21 April, 2023

Department of Computer Science and Engineering in association with CSI Udaipur chapter from 17th to 21st April,2023. It was coordinated by Dr. Mayank Patel (HOD, CSE) and Ms. Charu Kavadia (Assistant Professor, CSE). 45 students participated in this program.

It was an offline program and was resourced by Mr. Rajendra Deopura, Corporate Trainer, having experience of 20+ Years Dr. Paras Kothari, Professor and HOD, MCA, GITS, having experience of 22+ Years Dr. Chintal Patel, Associate Professor, CSE, GITS, having experience of 13+ Years.

This five days FDP on Mastering RDBMS with SQL Server aims to make participants aware about introduction of database development, designing and implementing database, various operations to be performed on Database and how to ensure integrity through constraints on RDBMS.

In the Inaugural function on 17/4/23, following were present Dr. Narendra Singh Rathore, Director, GITS Mr. Rajendra Deopura, Corporate Trainer, having experience of 20+ Years (Resource Person), Dr. Paras Kothari, Professor and HOD, MCA, GITS, having experience of 22+ Years (Resource Person) Dr. Chintal Patel, Associate Professor, CSE, GITS, having experience of 13+ Years (Resource Person) Dr. Mayank Patel, HOD CSE, GITS;

With all the HODs of GITS, all the faculties of CSE Department and participants congratulated Department of CSE for organizing such events.

The program started with the comparing of Ms. Hitiksha Manoti, student B.Tech CSE, she welcomed all the cherished dignitaries and participants. Then Dr. Mayank Patel, HOD, CSE inaugurated the programme by briefing the programme and welcoming the eminent speakers. Dr. Narendra Singh Rathore, Director, GITS also shared his valuable views on importance of RDBMS and congratulated Department of CSE for organising such events.

Day 1: Introduction to Database Development

In this session speaker introduced database development and the key tasks that a database developer would typically perform. It covered following topics- Introduction to the SQL Server Platform, SQL Server Database Development Introduction, Versions, Editions,Common Q/A, Installation of SQL SERVER software and Verification of SQL SERVER software installation.

Day 2: Designing and Implementing Databases

In this session, speaker explained how to design, create, and alter databases using GUI and T- SQL and also focused on working with tables. It covered following topics- Designing Databases using GUI, Designing Databases using T-SQL, Tables creation, Data Types, Creating and Altering Tables and Working with FileGroups.

Day 3: DDL and DML Operations

In this session, speaker explained how to insert, update, and delete existing data along with structural changes in existing tables. It covered following topics- DML statements like INSERT, UPDATE,DELETE, DDL statements like ALTER,DROP, DQL statements like SELECT, Working with Logical operators, Working with LIKE predicate, Working with IN and NOT IN operators, Introduction to NorthWind Database and Querying NorthWind database.

Day 4: Ensuring Data Integrity through Constraints

In this session, speaker explained how to enforce data integrity, and implement domain integrity to maintain high quality data. Also he focusesd on implementing Entity and Referential Integrity. It covered following topics- Enforcing Data Integrity, Implementing Entity and Referential Integrity, NOT NULL constraint,PRIMARY KEY CONSTRAINT, UNIQUE KEY CONSTRAINT, FOREIGN KEY CONSTRAINT, CHECK CONSTRAINT and DEFAULT CONSTRAINT

Day 5: Procedures and Functions

In this session, speaker explained the concept of Procedures and Functions, using a programmatic approach where business logic can be written via procedures and functions. It covered following topics- User Defined Procedures, System stored procedures, Dynamic SQL, User Defined functions and System Functions

Celebration

NATIONAL STARTUP DAY

16 January, 2023

On the occasion of National Startup Day on 16th January, 2023, our students along with Mr. Latif Khan, Assistant Professor, CSE visited iStart, Nest Incubator, Collectorate Office, Udaipur to take guidance from their officials. Total 30 students went to the iStart, Nest Incubator, Collectorate Office, Udaipur. First they gather in college and all went through college bus.

Students learnt about: How to get a trademark, Patent, Copyright and GI of startup Idea, iStart programs to nurture start-up Idea along with startup policy of Govt and Further they also got to see an incubated startup and were motivated towards an efficient entrepreneurship.

Coding Event

Internal Hackathon Kavach

7 April, 2023

Geetanjali Institute of Technical Studies, Dabok Udaipur organized Internal Hackathon Kavach-2023 on 7 th April 2023. MoE Innovation Cell, AICTE along with the Bureau of Police Research and Development (BPR&D) (MHA) and the Indian Cybercrime Coordination Centre (I4C) (MHA) have launched 'KAVACH-2023' a unique national Hackathon to identify innovative concepts and technology solutions for addressing the security challenges of the 21st century faced by our intelligence agencies.

KAVACH-2023 is conceived to challenge India's innovative minds to conceptualize ideas and frameworks in the domain of cyber security using artificial intelligence, deep learning, machine learning, automation, big data, and cloud computing.

KAVACH-2023 is a unique opportunity for higher institutional students and startups in India to submit their innovative ideas/concepts under the different problem statements. This event was conducted in physical mode in two phases viz. Initial Phase/Idea screening round and Grand Finale round. In the Initial round, the initially submitted ideas will be thoroughly screened and scrutinized and the selected ones will be moved for the Grand Finale that will be held in the month of July-2023. KAVACH 2023 will have two phases. The submitted ideas will be evaluated by a group of experts in the field and only the innovative ideas will be selected for the Grand Finale or 2nd round. During the Grand Finale, selected participants are expected to build a solution to demonstrate their concepts and prove to the juries that their ideas are technically feasible and more importantly implementable. The best ideas will be declared winners. During this 36 hours' hackathon, scheduled in the month of July-23, selected youths from educational institutions across the country will participate to offer strong, safe, and effective technology solutions using their technical expertise and innovative skills. Total Prize money worth Rs. 20,00,000 is announced for the winning teams. This hackathon has 20 Problem statements related to the cyber security domain against which the innovative minds will be able to submit their ideas and compete against each other.

There were total of 17 teams and overall 102 participations, out of which 10 teams were shortlisted for the next round. The evaluation was done by 3 Evaluators on various criteria like Novelty of the idea, Complexity, clarity, Scale of impact & feasibility, Practicability & Sustainability, User experience & future work progression

The evaluation has a maximum of 50 marks, out of which each criterion has a weightage of 10 marks. Based on the evaluation, the 10 teams will be forwarded to the next round of hackathons.

S. No.	Name of Jury	Designation	Organization
1	Dr. Dinesh Shrimali	Assistant Professor	JRN Rajasthan Vidyapeeth University, Udaipur
2	Dr. Paras Kothari	HoD, MCA	Geetanjali Institute of Technical Studies, Udaipur
3	Ms. Harshita Jain	Project Engineer	Wipro Limited
4	Mr. Saurabh Srivastava	Developer	Infosys Limited

Nominated top teams

S.No	**Pr**oblem Statement	**Team Name**	**Group No**
1	KVH-001 - New age women safety app	ESRA	G1
2	KVH-001 - New age women safety app	Ekyam	G2
3	KVH-001 - New age women safety app	β crew	G3
4	KVH-003 - Advanced fake news detection system	Team Ravenclaws	G7
5	KVH-003 - Advanced fake news detection system	The Akatsuki	G8
6	KVH-006 - Dark web crawler	Team Spider	G10
7	KVH-007 - Spam alert system	ETERNAL	G11
8	KVH-009 - Advanced CCTV analytics solution	Single Strikers	G12
9	KVH-011 - Citizen safety app for protection against cyber crimes	Synergy	G13
10	KVH-013 - Tool for monitoring ground personnel	Phantom troupe	G14

कवच -2023 हैकाथॉन के प्रथम चरण का समापन

उदयपुर. गीतांजलि इंस्टीट्यूट ऑफ टेक्नीकल स्टडीज डबोक में 24 घण्टे से साइबर सिक्योरिटी पर चल रहे राष्ट्रीय स्तर हैकाथॉन कवच 2023 का समापन हो गया। संस्थान के निदेशक डॉ. एन. एस. राठौड ने बताया कि कवच 2023 साइबर सिक्योरिटी पर आधारित राष्ट्रीय स्तर का एक अनूठा हैकाथॉन है जो शिक्षा मंत्रालय के इनोवेशन सेल, अखिल भारतीय तकनीकी शिक्षा परिषद नई दिल्ली पुलिस अनुसंधान एवं विकास ब्यूरो तथा भारतीय साइबर अपराध समन्वय ग्रेड की ओर से संयुक्त रूप से पूरे भारत में प्रमुख शैक्षणिक संस्थानों पर आयं किया जा रहा है। कार्यक्र संयोजक डॉ. मयंक पटेल अनुसार इस राष्ट्रीय हैकाथॉन प्रॉब्लम स्टेटमेंट पर गिट्स व टीमें भाग ले रही हैं। इसमें चरण में फर्जी खबर, मीडिया, डार्क वेब, महिला तथा फिशिंग डिटेक्शन आदि तकनीकी समाधान का विद्यार्थियों द्वारा प्रारम्भिक स्तर जा रहा है। इस दौरान श्रीवास्तव, हर्षिता जैन, प्रो. दिनेश श्रीमाली एवं डॉ. कोठारी आदि मौजूद रहे।

राष्ट्रदूत

हैकाथॉन के प्रथम चरण का समापन

उदयपुर। गीतांजली इन्स्टिटियूट ऑफ टेक्नीकल स्टडीज डबोक उदयपुर (गिट्स) में 24 घण्टे से साईबर सिक्योरिटी पर चल रहे राष्ट्रीय स्तर हैकाथॉन कवच 2023 का समापन हुआ। संस्थान के निदेशक डॉ. एन. एस. राठौड ने बताया कि कवच 2023 साईबर सिक्योरिटी पर आधारित राष्ट्रीय स्तर का एक अनूठा हैकाथॉन हैं जो षिक्षा मंत्रालय के इनोवेषन सेल, अखिल भारतीय तकनीकी शिक्षा परिषद नई दिल्ली पुलिस अनुसंधान एवं विकास ब्यूरो तथा भारतीय साईबर अपराध समन्वय ग्रेड द्वारा संयुक्त रूप से पूरे भारत में प्रमुख शैक्षणिक संस्थानों पर आयोजित किया जा रहा हैं। जिसका उद्देष्य साईबर सुरक्षा सुनिश्चित करने तथा साईबर अपराधियों से निपटने के लिए विद्यार्थियों एवं पंजीकृत स्टार्टअप से जुडें युवाओं से तकनीकी समाधान आमंत्रित करना हैं। जिसमें देश भर के विद्यार्थी अपने ज्ञान, तकनीक एवं कौशल एवं आर्टीफिशियल इन्टेलीजेंस, मषीन लर्निंग, डीप लर्निंग जैसी मजबूत तकनीको का उपयोग करके साईबर सुरक्षा सम्बन्धित चुनौतियां का डिजीटल समाधान निकालेंगे।


WELCOME
to
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KAVACH
2023
INTERNAL
HACKATHON
FOR
KAVACH-2023


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Conference

2nd International Conference On Multi-Disciplinary Application & Research Technologies (ICMART-2023)

19 - 20 May, 2023

Throughout the world, nations have started recognizing that interdisciplinary studies are now acting as a catalyst in speeding up economic activity in efficient products, ease, governance, citizens empowerment, and improving the quality of human life. The central motive of this conference is to address challenges associated with the effective dispensation of all the latest knowledge being generated in all the fields of engineering and technology with a focus on the latest trends in Artificial Intelligence, Machine Learning, and IoT. With technology progressing at an accelerated pace, young scholars, students, and researchers in their careers are finding it more challenging than ever to keep up. This conference aimed at helping them get up-to-speed with all the latest advancements and providing a platform to showcase their ability in this challenging environment

The program started with the welcoming of guests and Lamp Lightening. The program was inaugurated by Dr. Mayank Patel, HOD-CSE by addressing all the participants and dignitaries and sharing information about the Conference scope and tracks. In the welcome speech Dr. N.S. Rathore, Director, GITS addressed our participants and motivated them to come forward for such opportunities and showcase their talent. He also highlighted the concept of Multidisciplinary Applications and Research Technology. He enlightened the conference participants by explaining the concepts of the Transdisciplinary Approach, Bio-Medical Engineering, Digital Technology, IoT, AI to AGI, Technology Enabled Research, 10-20-30 Policy, and how these can be incorporated with various Multidisciplinary fields.

Dr. Mayank Patel, HOD-CSE addressed the session

Motivational speech by Dr. N.S. Rathore, Director, GITS

Er. C.P. Jain, Engineer and Chairman of Institutes of Engineers, Udaipur Local Chapter, threw light on the contribution of the Udaipur Chapter towards society, by organizing various seminars and workshops. He gave his valuable insights about the importance of knowledge in all disciplines including Civil, Electrical, Mechanical, etc.

Prof. (Dr.) Manju Mandot, Director, Department of Computer Science and IT, JRN Rajasthan Vidyapeeth Udaipur, shared her thoughts on including all the fields (Law, Medical, Technology, etc.) in the Multidisciplinary Research. She also enlightened us by sharing her experience of conducting research regarding the use of Digital Technology in Rural Areas and spreading awareness among rural people about Cyber Security

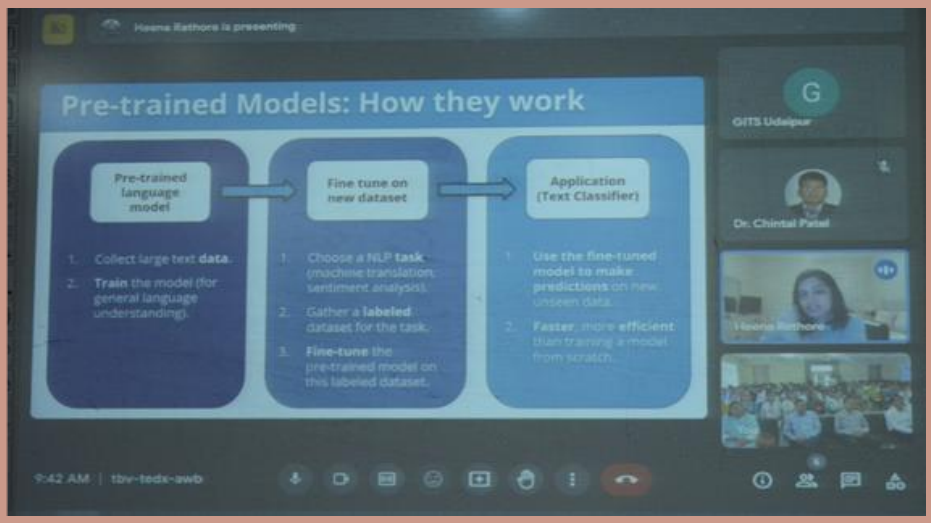
Day 1: Technical Session

On the first day of the Conference after the Inaugural session, we had one session post-lunch. A total of 12 papers were presented from various streams like Computer Science, Electronics, and Communications. The papers were scattered over topics like Artificial Intelligence, Machine Learning-face Detection, Mobile Application Development, and IoT. The session ended at 02:30 pm with success.

Day 2 : Expert Talk By Dr. Heena Rathore

Day 2 started with the expert talk delivered by Dr. Heena Rathore, Assistant Professor at Texas State University, San Marcos, Texas, on the topic, “Revolutionizing Mental Healthcare: The Role of AI in Promoting Well-Being”. She gave valuable insights about Natural Language Processing (NLP), its architecture, subfields, applications, and how NLP can be used to develop Replica Chatbot to help people suffering from mental disorders using generative AI. She enlightened the participants by discussing the stages of understanding a chatbot, training it, and how therapists can use it to treat their patients suffering from mental health issues. She also drew a comparison between Chat GPT 3 and GPT 4 and explained the concepts of the Large Language Model, Digital Twin, and ethical issues related to Generative AI. It was a very informative session, and the participants were able to comprehend the importance of AI in nourishing mental health.

The paper presentation was scattered over two sessions. The pre-lunch session started at 11:00 and the post-lunch session at 12:30 pm. A total of 21 papers were presented in these sessions. The session ended at 01:15 pm on 2nd day successfully.



Online Expert Talk by Dr. Heena Rathore

Valedictory Session:

Receiving an overwhelming response from participants, this conference came to an end with a valedictory session, graced by Dr. Mayank Patel, HOD-CSE, GITS. All participants appreciated the department for organizing such type of Conference. The program ended with a vote of thanks by Dr. Mayank Patel (HOD, CSE Department).

मानसिक दु:खों को दूर करना तकनीकी विकास की पहली प्राथमिकता हो : डॉ. हिना राठौड़

उदयपुर (वि)। गीतांजली इन्स्टिट्यूट ऑफ टेक्नीकल स्टडीज डबोक उदयपुर (गिट्स) में दो दिन से चल रही द्वितीय अन्तर्राष्ट्रीय कॉन्फ्रेंस मल्टी डिस्पीलिनरी एप्लीकेशन एण्ड रिसर्च टेक्नॉलोजी (आई.सी.एम.ए.आर.टी.- 2023) का समापन हुआ। कान्फ्रेंस में विज्ञान एवं इन्जिनियरिंग के विभिन्न आयामों पर शोध एवं नवाचार के साथ गिट्स के प्लेटफॉर्म पर एक संयुक्त रूप से एकत्रित होकर विभिन्न विषयों के शोधार्थियों ने अपने-अपने ज्ञान को साझा किया। संस्थान के निदेशक डॉ. एन. एस. राठौड ने इन्जिनियरिंग में कम्प्यूटर एप्लीकेशन के बारे में बताते हुए कहा कि इन्जिनियरिंग अनवरत सिम्पल एप्रोच से काम्प्लेक्स एप्रोच की तरफ बढ रही हैं। चीजें इन्टर डिस्पीलिनरी से मल्टी डिस्पीलिनरी होती जा रही हैं। आज ऐसे में कम्प्यूटर का योगदान अहम होता जा रहा हैं। मुख्य अतिथि के रूप में संयुक्त राज्य अमेरिका के टेक्सेस स्टेट यूनिवर्सिटी की असिस्टेंट प्रो. डॉ. हिना राठौड़ ने 'रोल ऑफ ए.आई. इन प्रमोटिंग वेल बिंग' के विषय सम्मिलित नेचुरल लेंगवेज प्रोसेसिंग के विभिन्न उपयोगों के बारें में बताते हुए कहा कि आज विश्व में हर चौथा व्यक्ति फेमिली, रिलेशन एवं केरियर की वजह से मेंटल डिस ऑर्डर का शिकार हैं। जिसकी वजह से लोग आत्महत्या तक कर रहे हैं। इसके लिए हमें ऐसी तकनीकी का विकास करना होगा, जो इनके मानसिक दु:खों को दूर करने के साथ इनसे अपनापन दिखा सके। इसके लिए चेट जी.पी.टी. आधारित चेट बॉट बनाकर कुछ हद तक इनकी सहायता की जा सकती हैं। इन्स्टीट्यूट ऑफ इन्जिनियर्स उदयपुर के चेयरमेन सी.पी. जैन ने इन्जिनियरिंग के विभिन्न आयामों को सामाजोपयोगी बनाने का सुझाव प्रस्तुत किया। कम्प्यूटर सोसायटी ऑफ इण्डिया उदयपुर चेप्टर की चेयरमेन एवं जनार्द राय नागर विश्वविद्यालय कम्प्यूटर साईंस व आई.टी. विभाग की निदेशक डॉ. मंजु मण्डोत ने डिजिटल टेक्नोलॉजी की सहायता से ग्रामीण इलाकों के विकास पर फेकस किया। कार्यक्रम के संयोजक एवं कम्प्यूटर साईंस विभागाध्यक्ष डॉ. मयंक पटेल के अनुसार इस कॉन्फ्रेंस में कूल 62 शोध पत्र प्राप्त हुए थे शोध पत्रों की गुणवत्ताओं को देखते हुए केवल 36 शोध पत्र ही प्रेजेंटेशन के लिए चयनित किये गये। सभी चयनित शोधपत्रों को यू.जी.सी. से मान्यता प्राप्त जनरल में प्रकाशित किया जायेगा। संचालन छात्रा हितांशी द्वारा किया गया। इस दौरान वित्त नियंत्रक बी.एल. जाँगिड सहित पूरा गीतांजली परिवार उपस्थित रहा।

·Pratahkal – newspaper, Udaipur Edition 21 May 2023

लोगों के मानसिक दुखों को दूर करना तकनीकी विकास की हो प्राथमिकता

ब्यूरो नवज्योति/उदयपुर। गीतांजलि इंस्टीट्यूट ऑफ टेक्निकल स्टडीज में मल्टी डिस्पीलिनरी एप्लीकेशन एंड रिसर्च टेक्नॉलोजी पर जारी अंतरराष्ट्रीय संगोष्ठी का समापन हुआ। इस दो दिवसीय कांफ्रेंस में विज्ञान एवं इंजीनियरिंग के विभिन्न आयामों पर शोध एवं नवाचार के साथ गिट्स के प्लेटफॉर्म पर एक संयुक्त रूप से एकत्रित होकर विभिन्न विषयों के शोधार्थियों ने अपने-अपने ज्ञान को साझा किया। संस्थान के निदेशक डॉ. एनएस राठौड़ ने कहा कि इंजीनियरिंग अनवरत सिम्पल एप्रोच से कॉम्प्लेक्स एप्रोच की तरफ बढ़ रही है। अमेरिका के टेक्सास स्टेट यूनिवर्सिटी की असिस्टेंट प्रो. डॉ. हीना राठौड़ ने कहा कि आज विश्व में हर चौथा व्यक्ति फैमिली, रिलेशन एवं कॅरियर की वजह से मेंटल डिसऑर्डर का शिकार है। इसके लिए हमें ऐसी तकनीकी का विकास करना होगा, जो इनके मानसिक दु:खों को दूर करने के साथ इनसे अपनापन दिखा सके। इस मौके पर इंस्टीट्यूट ऑफ इंजीनियर्स उदयपुर के चेयरमेन सीपी जैन, कम्प्यूटर सोसायटी ऑफ इंडिया उदयपुर चेप्टर की चेयरमैन एवं जनार्दन राय नागर विश्वविद्यालय के कम्प्यूटर साईंस व आईटी विभाग की निदेशक डॉ. मंजू मांडोत ने भी संबोधित किया।

·Navjyoti, Udaipur on 21 May 2023

Student Achievers

HACKATHON
IN
SHARDA UNIVERSITY

30 January- 4 February,2023

Team Nextel, from Geetanjali Institute of Technical Studies, Computer Science & Engineering Department, participated in the 5th Technovation Hackathon organized by Sharda University, Greater Noida.

The Team Nextel worked under the theme SSSS-Smart, Safety, Security, and Surveillance. The team's project title was "Training for Coal Mine Workers Using Virtual Reality". The idea is to bring smart safety to coal mine workers with the help of virtual reality, and they can learn and get first-hand experience in VR.

Team Members of Team Nextel: -

1. Akshali Jain
2. Ankush Patel
3. Mehul Jain
4. Priyam Jain

Team Mentor

Dr. Mayank Patel

There were the following rounds for shortlisting in the Event–Online Selection Rounds:

Nextel's journey commenced with two rigorous online rounds that tested their skills, creativity, and problem-solving abilities. After shortlisting for this round team was called to Sharda University to compete in the finals.

Offline Hackathon Event:

Scheduled on February 3rd and 4th, 2023, the offline hackathon brought together teams from various institutions to engage in an intense 24-hour live coding session. There were 150 teams from various institutions including schools.

The Grand Finale took place in 2 rounds, one was at 8:00 pm on 3rd February 2023, after that some suggestions were given to the team, and the second round started on 4th February 2023 at noon. It was a great experience for the team to participate in a 24-hour hackathon. It was only possible under the guidance of Dr. Mayank Patel, HOD, CSE, his consistency to motivate and support students seems like a backbone to students so that they can work hard and always achieve and explore in life.

SHARDA SCHOOL OF ENGINEERING & TECHNOLOGY

5th TECHNOVATION HACKATHON

(Smart Safety, Security and Surveillance)

Certificate of Participation

This certificate is presented to

Mr./Ms. Ankush Patel

of University /College/ School Geetanjali Institute of Technical Studies

for successfully participated in

5th Technovation Hackathon (Smart Safety, Security and Surveillance)

held from 30th January – 04th February, 2023 organized by Sharda School of Engineering and Technology, Sharda University, Greater Noida, India.

Prof. (Dr.) Parma Nand
Dean Academics & Dean-SSET, Sharda University, India

Prof. Arun Prakash Agrawal
HoD, CSA, Sharda University, India

Prof. Nitin Rakesh
HoD, CSE, Sharda University, India

SHARDA SCHOOL OF ENGINEERING & TECHNOLOGY

5th TECHNOVATION HACKATHON

(Smart Safety, Security and Surveillance)

Certificate of Participation

This certificate is presented to

Mr./Ms. Mehul Jain

of University /College/ School Geetanjali Institute of Technical Studies.

for successfully participated in

5th Technovation Hackathon (Smart Safety, Security and Surveillance)

held from 30th January – 04th February, 2023 organized by Sharda School of Engineering and Technology, Sharda University, Greater Noida, India.

Prof. (Dr.) Parma Nand
Dean Academics & Dean-SSET, Sharda University, India

Prof. Arun Prakash Agrawal
HoD, CSA, Sharda University, India

SHARDA SCHOOL OF ENGINEERING & TECHNOLOGY

5th TECHNOVATION HACKATHON

(Smart Safety, Security and Surveillance)

Certificate of Participation

This certificate is presented to

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of University /College/ School Geetanjali Institute of Technical Studies

for successfully participated in

5th Technovation Hackathon (Smart Safety, Security and Surveillance)

held from 30th January – 04th February, 2023 organized by Sharda School of Engineering and Technology, Sharda University, Greater Noida, India.

Prof. (Dr.) Parma Nand
Dean Academics & Dean-SSET, Sharda University, India

Prof. Arun Prakash Agrawal
HoD, CSA, Sharda University, India

SHARDA SCHOOL OF ENGINEERING & TECHNOLOGY

5th TECHNOVATION HACKATHON

(Smart Safety, Security and Surveillance)

Certificate of Participation

This certificate is presented to

Mr./Ms. Akshali Jain

of University /College/ School Geetanjali Institute of Technical Studies

for successfully participated in

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Prof. Arun Prakash Agrawal
HoD, CSA, Sharda University, India

Prof. Nitin Rakesh
HoD, CSE, Sharda University, India

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NPTEL Achievers

NPTEL

National Programme on Technology Enhanced Learning (NPTEL) is a project of MHRD initiated by seven Indian Institutes of Technology along with the Indian Institute of Science in 2003, to provide quality education to anyone interested in learning from the IITs.

The main goal was to create web and video courses in all major branches of engineering and physical sciences at the undergraduate and postgraduate levels. The students of Geetanjali Institute Of Technical Studies also took advantage of the same and excelled in various courses.

75 students of the CSE branch successfully completed several courses in nptel 2023.

NPTL CSE (JANUARY_JUNE 2023)

S.no	Course Id	Course Name	Name	Certificate Type	Topper
1	noc23-cs02	Introduction to Programming in C	Vishakha Sahu	Elite+Silver	
2	noc23-hs10	Soft Skill Development	Sheetal Sharma	Elite	
3	noc23-hs13	Speaking Effectively	Himani Mehta	Elite	
4	noc23-cs17	Data Science for Engineers	Divya Dangi	Elite	
5	noc23-cs17	Data Science for Engineers	Chhavi Bhatia	Elite	
6	noc23-cs17	Data Science for Engineers	Kinjal jain	Successfully completed	
7	noc23-cs17	Data Science for Engineers	Nakshatra Nagar	Successfully completed	
8	noc23-cs17	Data Science for Engineers	Pratik Kanthaliya	Successfully completed	
9	noc23-cs17	Data Science for Engineers	Rajat Sen	Successfully completed	
10	noc23-cs17	Data Science for Engineers	Divya Salvi	Successfully completed	
11	noc23-cs41	Data Base Management System	Aditya Dhing	Successfully completed	
12	noc23-cs41	Data Base Management System	Kinjal jain	Successfully completed	
13	noc23-cs41	Data Base Management System	Anmol Singh Gangwar	Successfully completed	
14	noc23-cs41	Data Base Management System	Avishi Sharma	Successfully completed	
15	noc23-cs41	Data Base Management System	Hitesh Kumawat	Successfully completed	

NPTL CSE (JANUARY_JUNE 2023)

16	noc23-cs41	Data Base Management System	Sarthak Tak	Successfully completed	
17	noc23-cs41	Data Base Management System	Gayatri Mohanty	Successfully completed	
18	noc23-cs41	Data Base Management System	Divya Dangi	Successfully completed	
19	noc23-cs41	Data Base Management System	Himanshi Rathore	Successfully completed	
20	noc23-cs41	Data Base Management System	Aman Singh	Successfully completed	
21	noc23-cs41	Data Base Management System	Bhagyawardhan Singh Karnot	Successfully completed	
22	noc23-cs15	Programming, Data Structures And Algorithms Using Python	Anmol Singh Gangwar	Elite	
23	noc23-cs53	Problem Solving Through Programming In C	Shivam Pratap	Elite+Silver	Topper of 5% in this course
24	noc23-cs53	Problem Solving Through Programming In C	Animesh Bhatt	Elite	
25	noc23-cs53	Problem Solving Through Programming In C	Anup Kumar	Successfully completed	
26	noc23-cs53	Problem Solving Through Programming In C	Arnav Modi	Successfully completed	
27	noc23-cs53	Problem Solving Through Programming In C	Chetan Kumar	Elite	
28	noc23-cs53	Problem Solving Through Programming In C	Dasharath Kumar	Successfully completed	
29	noc23-cs53	Problem Solving Through Programming In C	Harshita Singh Dulawat	Successfully completed	
30	noc23-cs53	Problem Solving Through Programming In C	Jatin Dangi	Elite+Silver	

NPTL CSE (JANUARY_JUNE 2023)

31	noc23-cs53	Problem Solving Through Programming In C	Kamlesh chandel	Elite	
32	noc23-cs53	Problem Solving Through Programming In C	Khush Tiwari	Successfully completed	
33	noc23-cs53	Problem Solving Through Programming In C	Kiran Patel	Elite	
34	noc23-cs53	Problem Solving Through Programming In C	Krati jain	Successfully completed	
35	noc23-cs53	Problem Solving Through Programming In C	Nikhil Jitendra Kumar Vaishnav	Successfully completed	
36	noc23-cs53	Problem Solving Through Programming In C	Prerak Ameta	Elite	
37	noc23-cs53	Problem Solving Through Programming In C	Puru Joshi	Elite	
38	noc23-cs53	Problem Solving Through Programming In C	Rashi Jain	Successfully completed	
39	noc23-cs53	Problem Solving Through Programming In C	Ronak choudhary	Successfully completed	
40	noc23-cs53	Problem Solving Through Programming In C	Sakshi soni	Successfully completed	
41	noc23-cs53	Problem Solving Through Programming In C	Mouli Shree Sharma	Elite	
42	noc23-cs53	Problem Solving Through Programming In C	Snigdha Gupta	Elite	
43	noc23-cs53	Problem Solving Through Programming In C	Tejaswini Paliwal	Elite	
44	noc23-cs53	Problem Solving Through Programming In C	Vinal Jain	Elite	
45	noc23-cs53	Problem Solving Through Programming In C	Yash Chittora	Elite	

NPTL CSE (JANUARY_JUNE 2023)

46	noc23-cs53	Problem Solving Through Programming In C	yash sahu	Elite+Silver	
47	noc23-cs53	Problem Solving Through Programming In C	Yashvi Chittora	Successfully completed	
48	noc23-cs50	Programming in Modern C++	Avishi Sharma	Successfully completed	
49	noc23-cs50	Programming in Modern C++	Siddhika Dhabhai	Successfully completed	
50	noc23-cs50	Programming in Modern C++	Divya Dangi	Elite	
51	noc23-cs50	Programming in Modern C++	Vishakha Sahu	Elite	
52	noc23-cs29	Introduction to Database Systems	Tisha Jain	Successfully completed	
53	noc23-cs29	Introduction to Database Systems	Rinku Kunwar Rao	Elite	
54	noc23-cs29	Introduction to Database Systems	Sarthak Tak	Successfully completed	
55	noc23-cs29	Introduction to Database Systems	Narendra Patel	Successfully completed	
56	noc23-cs20	The Joy of Computing using Python	Rudransh Maheshwari	Successfully completed	
57	noc23-cs20	The Joy of Computing using Python	Vaishali	Elite+Silver	
58	noc23-cs49	Programming In Java	Suhasi Parihar	Elite	
59	noc23-cs49	Programming In Java	Suraj Lohar	Elite	
60	noc23-cs49	Programming In Java	Kapil Vaishnav	Successfully completed	

NPTL CSE (JANUARY_JUNE 2023)

61	noc23-cs49	Programming In Java	Hitesh Kumawat	Elite	
62	noc23-cs42	Cloud Computing	Sheetal Sharma	Elite+Silver	
63	noc23-cs51	Introduction To Internet Of Things	Pratik Kanthaliya	Elite+Silver	
64	noc23-hs52	English Language for Competitive Exams	Himani Mehta	Elite	
65	noc23-hs18	Training and Development	Anisha Shaktawat	Elite	
66	noc23-hs30	Enhancing Soft Skills and Personality	Naman Choudhary	Successfully completed	
67	noc23-hs30	Enhancing Soft Skills and Personality	Rashi Jain	Elite+Silver	
68	noc23-hs30	Enhancing Soft Skills and Personality	Kamlesh chandel	Elite	
69	noc23-hs37	Human Behaviour	Disha Pancholi	Elite+Silver	
70	noc23-cs08	Data Analytics with Python	Anmol Singh Gangwar	Elite	
71	noc23-cs08	Data Analytics with Python	Pooja Morvani	Successfully completed	
72	noc23-cs08	Data Analytics with Python	Nitimoy Mondal	Elite	
73	noc23-cs08	Data Analytics with Python	Sonika Sharma	Successfully completed	
74	noc23-cs08	Data Analytics with Python	Anit Kumar Yadav	Successfully completed	
75	noc23-ge14	Outcome Based Pedagogic Principles For Effective Teaching	Nitimoy Mondal	Elite+Silver	

Placements

Placements

GITS is a well-renowned name in the field of Technical Education and Management studies and directly contributes to the comprehensive education scenario of the country. We strongly believe in creating future technocrats and worthy citizens. Works 24*7 for ensuring employment for all the students across various industries and helping them in getting the most suitable job. The department of Computer Science and Engineering handles campus placement of the students. And the students of the Department of Computer Science have continued to make us proud by placement in many renowned companies. Details of CSE students placed from January to June 2023 are as follows –

S. No.	STUDENT NAME	DATE	COMPANY NAME	PROFILE	PACKAGE
1	KULDEEP MENARIA	20/1/2023	INDXX CAPITAL	PROJECT TRAINEE	3.25 LPA
2	POOJA SETH	20/1/2023	INDXX CAPITAL	PROJECT TRAINEE	3.25 LPA
3	HITANSHI JAIN	13/3/2023	SECURE METERS	GRADUATE ENGINEER TRAINEE	5.00 LPA
4	PRATIK KANTHALIYA	13/3/2023	SECURE METERS	GRADUATE ENGINEER TRAINEE	5.00 LPA
5	SNEHA DAK	13/3/2023	SECURE METERS	GRADUATE ENGINEER TRAINEE	5.00 LPA
6	SONALI LAMA	13/3/2023	SECURE METERS	GRADUATE ENGINEER TRAINEE	5.00 LPA
7	BHAVYA SUKHWAL	24/5/2023	ARCGATE	SOFTWARE DEVELOPER	4.00 - 5.00 LPA
8	MASOOMA JUCKER WALA	24/5/2023	ARCGATE	SOFTWARE DEVELOPER	4.00 - 5.00 LPA
9	PARTHIK SUHALKA	24/5/2023	ARCGATE	SOFTWARE DEVELOPER	4.00 - 5.00 LPA
10	POOJA SETH	24/5/2023	ARCGATE	SOFTWARE DEVELOPER	4.00 - 5.00 LPA
11	SANAH MATHUR	24/5/2023	ARCGATE	SOFTWARE DEVELOPER	4.00 - 5.00 LPA

Internship Drive

INTERNSHIP DRIVE BY THE RYB

21 February,2023

Department of Computer Science and Engineering organized an offline Internship Drive by THE RYB on 21st January 2023 (11:30 AM onwards)for providing internship and job opportunities in THE RYB to final year and 3rd year CSE students. The event was resourced by Mr. Rakesh Rajpurohit, CEO, of THE RYB & was coordinated by Mr. Jitendra Sharma(Assistant Professor, CSE) and Ms. Ayushi Ghill (Assistant Professor, CSE) . There were 65 participants interested in the drive.

The program started with welcoming all the cherished dignitaries and participants by Dr. Mayank Patel, (Professor and HOD CSE). Then Dr. Mayank Patel shared his views with the students about the internship with THE RYB. He also discussed the fields in which the company is working and how students can get benefit from it.

The company presentation was given by Mr. Rakesh Rajpurohit (CEO, THE RYB). He discussed the fields in which the company is presently working. He also discussed .NET and C# and also discussed the company's working environment and the benefits students can get from the company. He then discussed the company's policies and how the company is getting popular day by day.

The company conducted the selection process. It was conducted in 2 rounds. First, a written exam was conducted in which 22 students out of 65 CSE from the 3rd and final year were selected on the basis of the Technical exam. Second, One on one interview was conducted. Out of 27, the following 5 students were finally selected for the internship. 1. Pankaj Talesara, 2. Giriraj Singh Chundawat, 3. Suhasi Parihar, 4. Ankush Patel, 5. Nitin Jiwnani

The internship Drive came to an end with a valedictory session. The program ended with a vote of thanks by Dr. Mayank Patel(HOD, CSE) to THE RYB team.

MoU

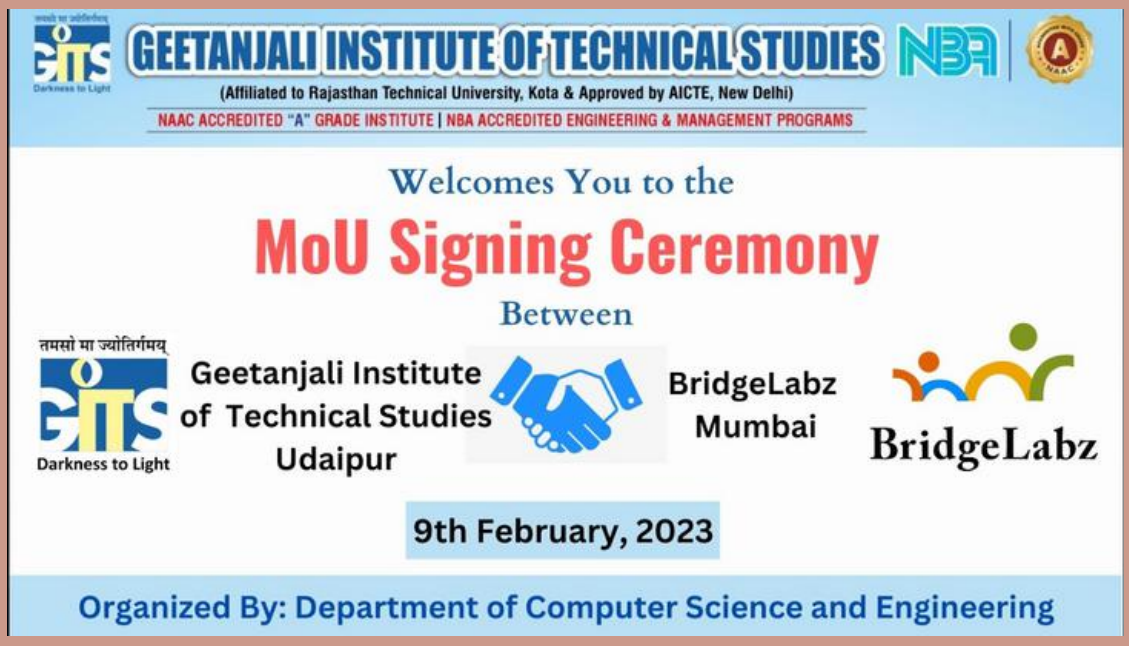
MOU
BETWEEN
BRIDGELABZ SOLUTION PRIVATE LIMITED
AND
GEETANJALI INSTITUTE OF TECHNICAL STUDIES

9 February,2023

The program started with welcoming all the cherished dignitaries and participants by Dr. Mayank Patel, (Professor and HOD CSE). Then Dr. Mayank Patel shared his views with the students about the internship . He also discussed the fields in which the company is working and how students can get benefit from it.

This Memorandum of Understanding ("MoU") dated 6th February 2023 confirms BridgeLabz Solutions Private Ltd called "BridgeLabz" and Geetanjali Institute of Technical Studies.

BridgeLabz will be conducting the workshops with the latest technology for Students and assure that no finance is involved in this.



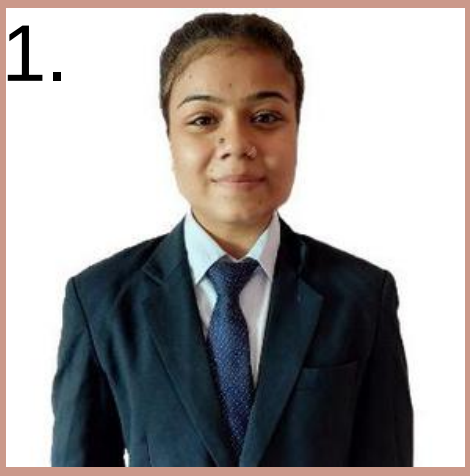
Academic Toppers

ACADEMIC TOPPERS

Here at the Computer Science Department of Engineering, we believe in providing our students with quality teaching, and our students reciprocate with us by their wonderful academic achievements. With their hard work and dedication, students of the CSE department have made us proud by excelling in academics.

CSE VII SEMESTER

1.



POOJA SETH
19EGICS082
89.87%

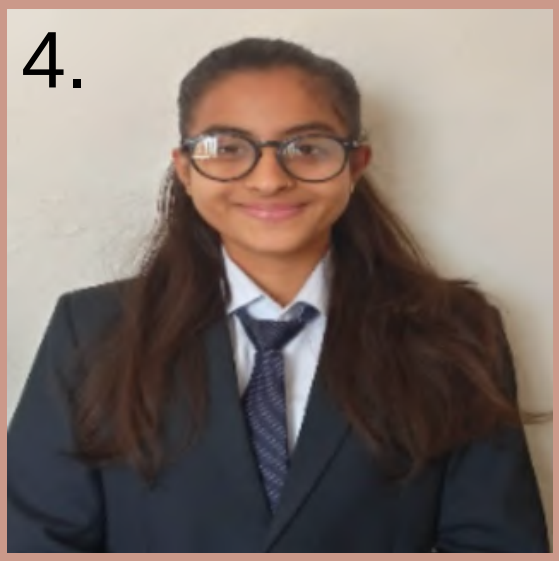
SHEETAL SHARMA
19EGICS102
88.80%

2.

3.

HARSHAL JAIN
19EGICS034
86.40%

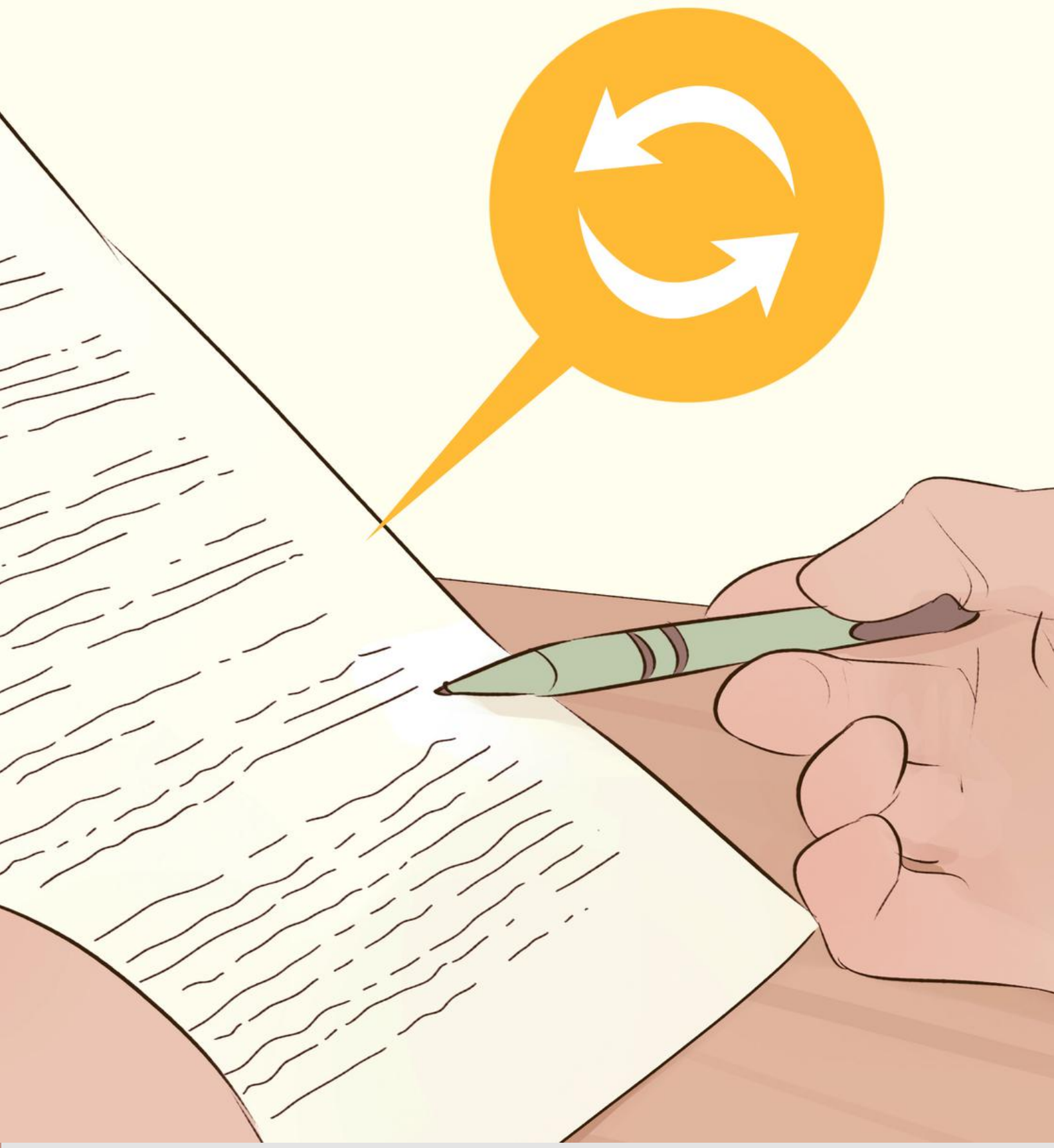
4.



YOGITA SHARMA
19EGICS123
85.47%

5.

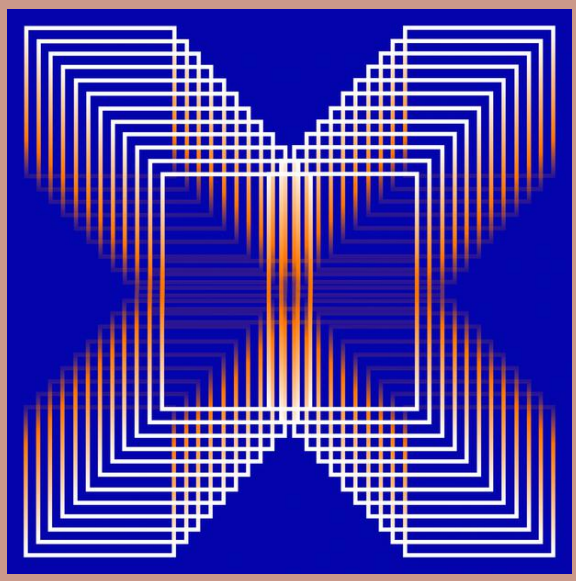
AKSHAT GARG
19EGICS003
85.20%

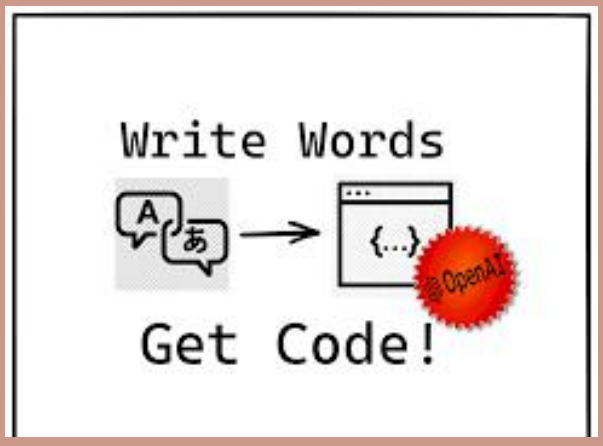


Student Article

CODEX

Codex is a term that refers to a set of rules or guidelines that govern the operation of a particular system or organization. In the world of computer programming, Codex has taken on a new meaning, referring to an AI system developed by OpenAI that can automatically generate source code based on natural language inputs. In this article, we will explore the Codex system and its implications for the field of computer programming.

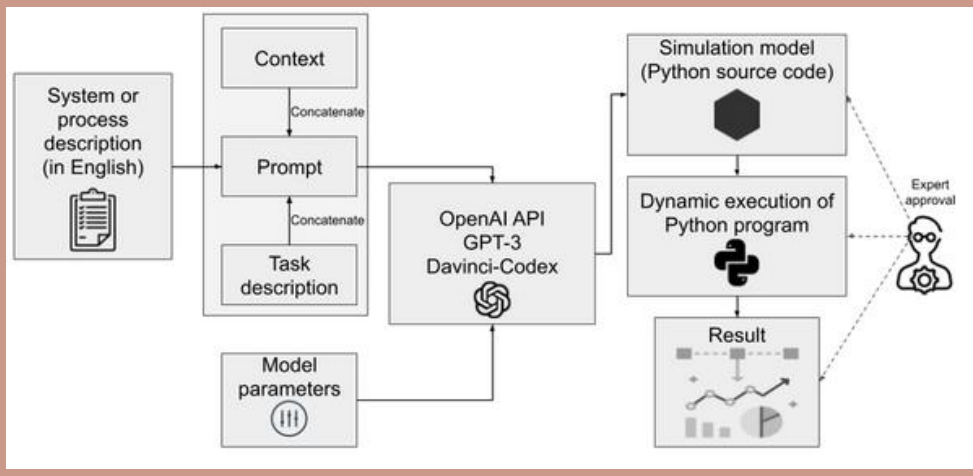




The result is a system that can understand natural language inputs and translate them into functional code. Codex has the potential to revolutionize the field of computer programming, making it easier for non-experts to create software applications without the need for extensive programming knowledge.

Codex is built on top of the GPT-3 language model developed by OpenAI. GPT-3 is an AI model that can generate text that is virtually indistinguishable from human-written text. OpenAI used GPT-3 as the basis for Codex, training the system on a massive dataset of publicly available source code.

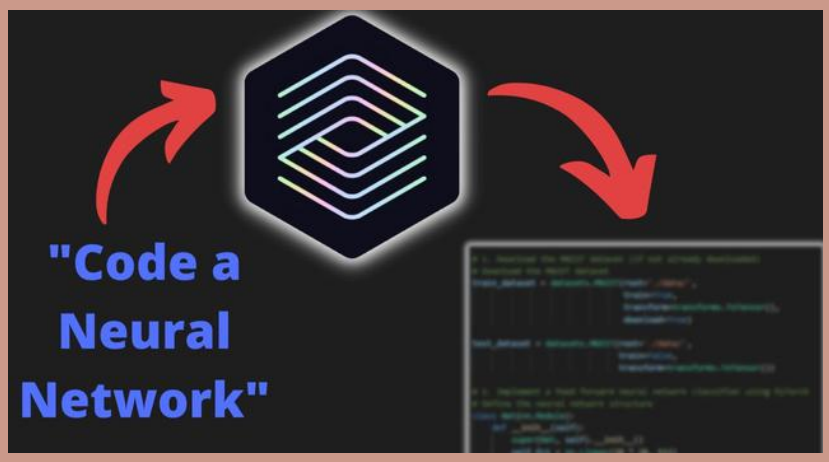
One of the key benefits of Codex is that it can significantly reduce the time and effort required to write code. This is particularly valuable for businesses and organizations that need to develop software quickly and efficiently. With Codex, developers can simply describe the desired functionality of a program in natural language, and the system will generate the necessary code automatically.



In addition to its speed and efficiency, Codex also has the potential to democratize the field of computer programming. Traditionally, programming has been a highly specialized skill, requiring years of training and education. With Codex, however, non-experts can generate functional code with little or no programming knowledge. This has the potential to open up the field of programming to a much broader range of people, including those from non-technical backgrounds.

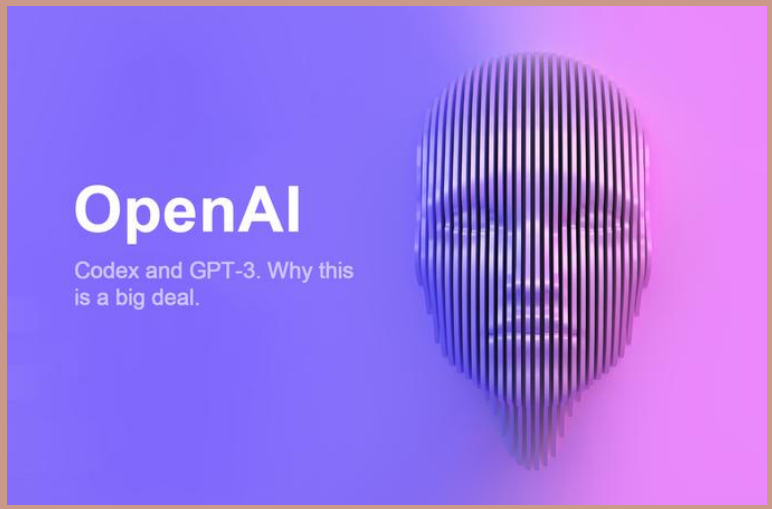
Of course, Codex is not without its limitations. While the system is capable of generating functional code, it is not always the most efficient or optimized code. This means that developers may still need to tweak and optimize the generated code to ensure that it runs smoothly and efficiently.

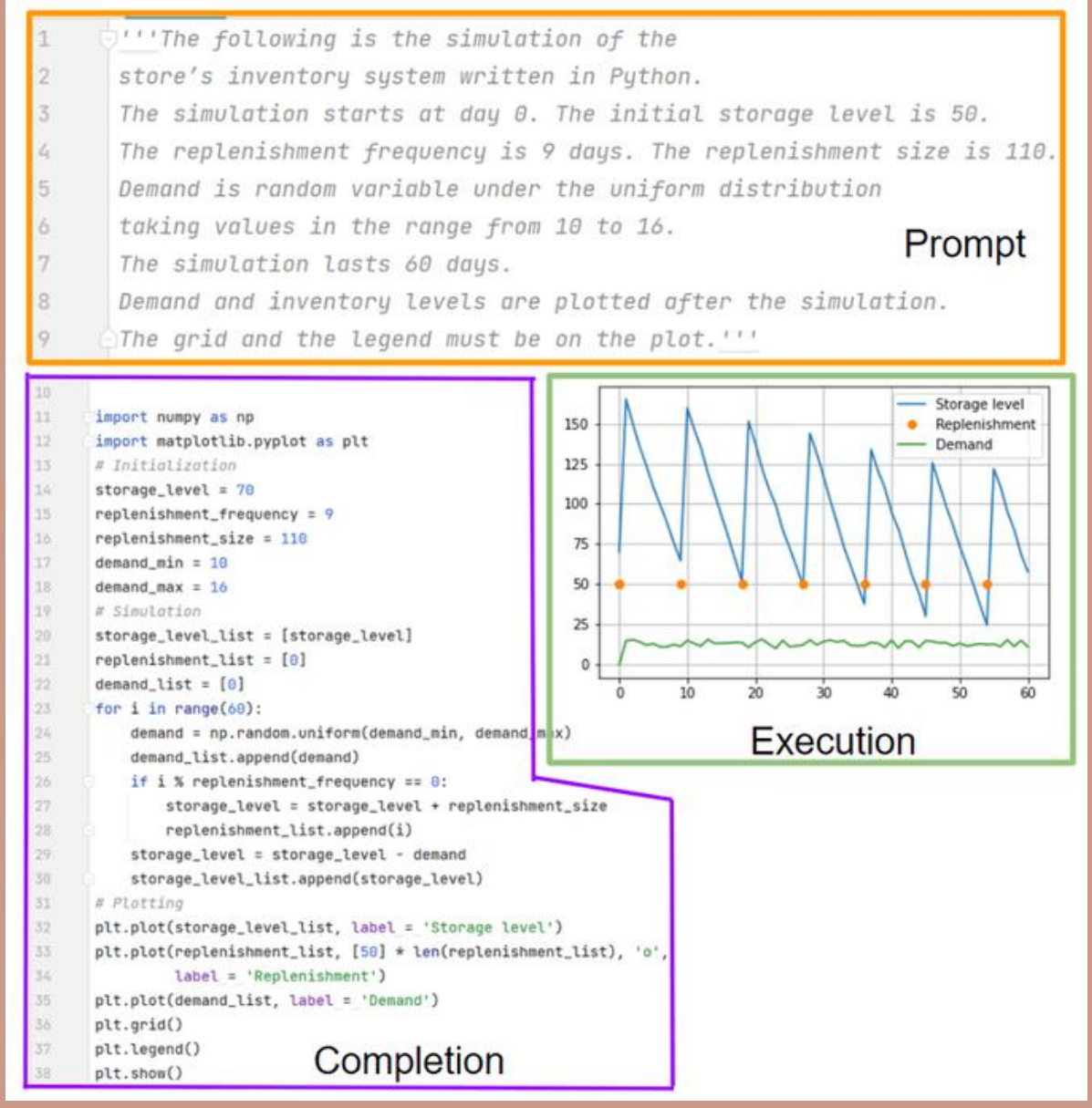
There are also concerns about the potential impact of Codex on the job market for software developers. Some experts worry that the system could replace human developers, making their skills and expertise obsolete. Others argue that Codex could actually create new opportunities for developers, allowing them to focus on more complex and specialized tasks while leaving the more mundane coding work to the system.



Despite these concerns, the potential benefits of Codex are hard to ignore. The system has already been used in a variety of applications, including developing new software tools and automating software testing. As the technology continues to evolve and improve, we can expect to see even more innovative applications for Codex in the years to come.

In addition to its potential impact on the field of computer programming, Codex also has implications for the broader field of artificial intelligence. The system represents a significant step forward in the development of AI that can understand and interpret natural language inputs. This has the potential to open up new avenues for AI research and development, particularly in areas such as natural language processing and machine learning.



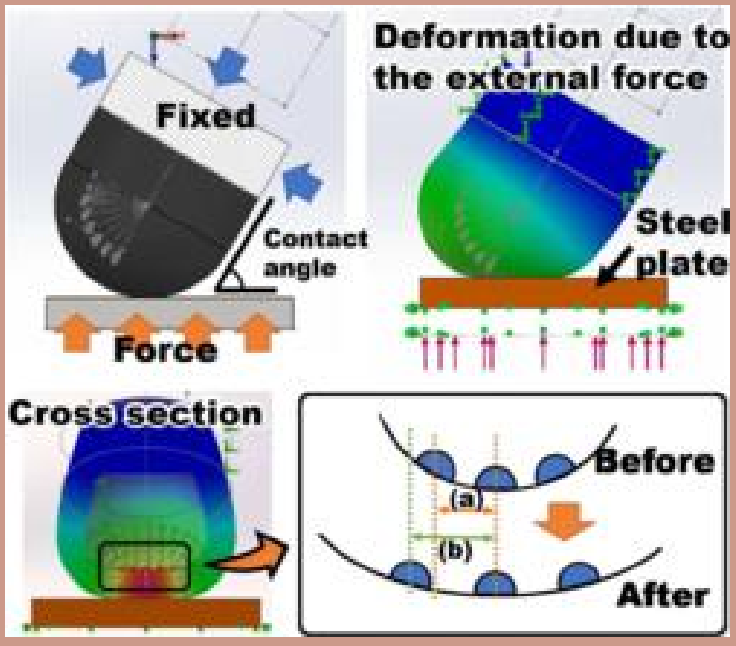


In conclusion, Codex represents a significant development in the field of computer programming. The system has the potential to revolutionize the way software applications are developed, making it faster and easier for non-experts to create functional code. While there are concerns about the potential impact of Codex on the job market for software developers, the system also has the potential to create new opportunities for developers and advance the field of artificial intelligence more broadly. As the technology continues to evolve, it will be exciting to see how Codex is used and adapted in a variety of applications and industries.

~Harshit Paliwal
II Year, IV Semester
Section C

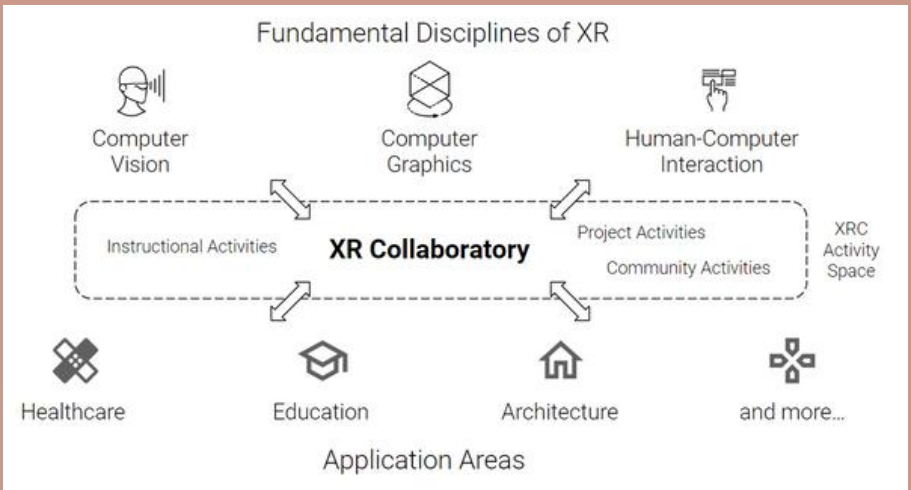
VISION AND GRAPHICS

The field of Vision and Graphics is a highly interdisciplinary area of research that sits at the intersection of computer science, engineering, and cognitive science. This field is focused on developing algorithms and techniques for analyzing, manipulating, and understanding visual data such as images, videos, and 3D models. In this article, we will explore some of the key research areas within Vision and Graphics and their practical applications.



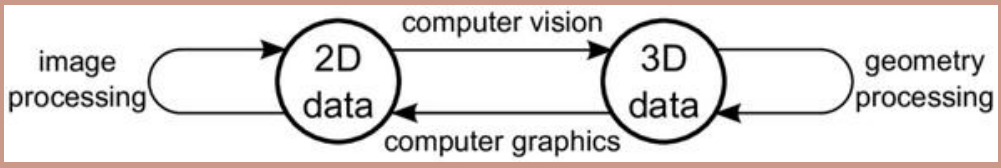
Computer Vision is perhaps the most well-known research area within Vision and Graphics. This field is focused on developing algorithms and techniques for analyzing and understanding visual data. Computer vision algorithms can be used for a wide range of applications, from self-driving cars that need to recognize and respond to their surroundings, to image search engines that can identify the content of a photo and retrieve related images. Computer vision algorithms can also be used for medical imaging, allowing doctors to analyze scans and identify potential health issues.

Another important area of research within Vision and Graphics is Graphics, which is focused on developing algorithms and techniques for creating and manipulating visual data. Graphics techniques are used to create realistic 3D models and virtual environments for a wide range of applications, including video games, movies, and architectural visualization. Graphics techniques can also be used for data visualization, allowing researchers to explore complex data sets in a more intuitive and visual way.



A related area of research within Vision and Graphics is Augmented and Virtual Reality. Augmented Reality (AR) is the process of overlaying digital information onto the real world, while Virtual Reality (VR) creates an entirely immersive digital environment. Both AR and VR technologies are becoming increasingly popular for a wide range of applications, from training simulations for military and emergency response personal, to educational tools that allow students to explore historical events and scientific concepts in a more immersive and engaging way.

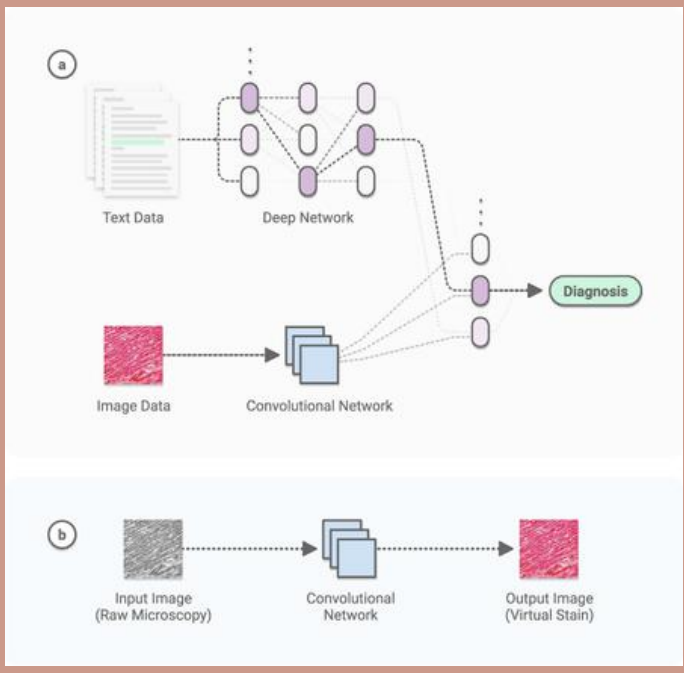
Machine Learning is also an important area of research within Vision and Graphics. Machine learning algorithms can be used to analyze and understand visual data, allowing computers to identify patterns and make predictions based on that data. Machine learning algorithms can be used for a wide range of applications within Vision and Graphics, from image and video recognition to 3D modeling and animation.



Another important research area within Vision and Graphics is Human-Computer Interaction (HCI). HCI is focused on developing interfaces and interaction techniques that allow humans to interact with computers and other digital systems in a more natural and intuitive way. Within the context of Vision and Graphics, HCI researchers are developing new interfaces and interaction techniques for augmented and virtual reality systems, allowing users to interact with these environments in a more intuitive and immersive way.

Finally, there is a growing area of research within Vision and Graphics focused on Ethics and Society. As the use of computer vision and graphics technologies becomes more widespread, researchers are grappling with important ethical and societal issues related to the use of these technologies. For example, there are concerns about the use of facial recognition technology and its potential impact on privacy and civil liberties. There are also concerns about the use of augmented and virtual reality technologies and their potential impact on social interaction and human behavior.

Overall, the field of Vision and Graphics is a rich and varied area of research with many practical applications. As computer vision and graphics technologies continue to evolve and improve, we can expect to see even more innovative applications and advancements in these research areas. From self-driving cars to virtual reality environments, the possibilities are truly endless. However, it is important to also consider the ethical and societal implications of these technologies and work towards developing responsible and sustainable applications of Vision and Graphics research.



~Suhani Talesara
II Year, IV Semester
Section B

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Until Next Time.....