

MONTHLY INSIGHTS

MARCH 2024

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DEPARTMENT OF INFORMATION TECHNOLOGY



Departmental Vision statement of Information Technology

To nurture the joy of excellence in the world of Information Technology

Departmental Mission statements of Information Technology

M1: To develop the critical thinking ability of students by promoting interactive learning.

M2: To bridge the gap between industry and institute and give students the kind of exposure to the industrial requirements in current trends of developing technology.

M3: To promote learning and research methods and make them excel in the field of their study by becoming responsible while dealing with social concerns.

M4: To encourage students to pursue higher studies and provide them awareness on various career opportunities that are available.



Program Educational Objectives (PEOs)

PEO1: Information Technology Engineering Graduates shall be employed as IT Professionals, and shall engage themselves in learning, understanding and applying newly developed ideas and technologies as their field of study evolves.

PEO2: information Technology Engineering graduates shall be competent to use the learnt knowledge successfully in the diversified sectors of Industry, academia, research and work effectively in a multi-disciplinary environment.

PEO3: Information Technology Engineering Graduates shall be aware of professional ethics and create a social responsibility in the building the nation/society.

Program Specific Outcomes (PSOs)

Student will be able to :

PSO1 : Demonstrate the ability to analyze and visualize the business domain and formulate appropriate information technology solutions.

PSO2: Apply various technologies like intelligent systems, Data mining, IOT, Cloud and Analytics, Computer and Network Security etc. for innovative solution to real time problems.



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ARTICLES

NEW TRENDS IN IT

Within the ever-changing field of Information Technology (IT), progress is not only steady but also quickening. New trends appear every year, changing the way people interact, businesses work, and society as a whole. Keep up with the newest trends that are influencing the IT business in this era of rapid technological innovation. Let's examine some of the most notable themes that are presently influencing how IT will develop in the future.

1. Artificial Intelligence (AI) and Machine Learning (ML): By automating procedures, forecasting results, and drawing conclusions from massive volumes of data, AI and ML are continuing to transform a variety of industries. Artificial intelligence and machine learning have countless uses, ranging from predictive maintenance in manufacturing to personalized suggestions on streaming platforms. AI and ML have the potential to spur innovation in a wide range of industries as algorithms get more complex and data becomes more readily available.

2. Edge computing: By bringing processing and data storage closer to the point of demand, edge computing lowers latency and uses less bandwidth. The emergence of edge computing can be linked to the spread of Internet of Things (IoT) devices and the need for processing data in real time. This tendency facilitates quicker decision-making, especially in situations like autonomous cars and smart city infrastructure when prompt reactions are essential.



3. Cybersecurity: As the digital transition quickens, cybersecurity is becoming more and more important. The emergence of cloud computing and remote work has presented enterprises with new security and infrastructure challenges. Because of this, there is an increasing focus on putting strong cybersecurity measures in place to protect against cyber-attacks and data breaches. These methods include sophisticated threat detection, encryption, and user authentication processes.

4. Quantum Computing: Although it is still in its early phases, quantum computing has the potential to drastically transform computer power. Quantum computers may do complicated tasks at speeds beyond the comprehension of classical computers by utilizing the concepts of quantum mechanics. Industries are investigating quantum computing's potential to solve optimization problems, cryptography, and drug development, even if practical applications are still developing.

5. Blockchain Technology: Originally the driving force behind digital currencies like Bitcoin, blockchain technology has expanded beyond its original uses to transform a number of industries, including healthcare, supply chain management, and banking. Blockchain improves transaction security, trust, and transparency by offering a decentralized, irreversible ledger. Adoption is increasing as more companies come to understand blockchain's benefits beyond cryptocurrency.

6. Augmented and virtual reality: These technologies have evolved from niche innovations to commonplace instruments with uses in a variety of sectors. AR and VR are changing how we engage with digital material, from virtual training simulations in healthcare and education to immersive gaming experiences. AR and VR have the potential to revolutionize entertainment, education, and many facets of daily life as technology becomes more widely available and software grows more advanced.

In conclusion, innovation and technical breakthroughs are driving a rapid evolution of the IT sector. Accepting these trends can enable organizations and people to adjust to a world that is becoming more digital, opening up new possibilities and efficiencies. But it's crucial to approach these changes with caution, taking into account how they could affect ethics, security, and privacy. We may negotiate the challenges of the digital era and realize the full promise of information technology for societal advancement by remaining informed and accepting innovation in a responsible manner.





INDIA SEMICONDUCTOR MISSION

In a significant move towards technological self-sufficiency, Prime Minister Narendra Modi has unveiled the ambitious "India Semiconductor Mission." This mission marks a strategic endeavor to position India at the forefront of semiconductor manufacturing and innovation over the next five years, heralding a new era of indigenous technological growth.

Understanding Semiconductors: To grasp the importance of the India Semiconductor Mission, it's crucial to understand what semiconductors are and why they matter. Semiconductors are the building blocks of modern electronics, acting as tiny switches that control the flow of electricity in devices. From smartphones and computers to medical devices and automotive systems, semiconductors are omnipresent in our daily lives, driving innovation and enabling technological advancements.

Reducing Dependency on Imports: Historically, India has been heavily reliant on imported semiconductors to meet its burgeoning demand for electronic devices. This dependency poses several challenges, including vulnerability to supply chain disruptions and heightened costs. The India Semiconductor Mission aims to address this by fostering a robust domestic semiconductor ecosystem, reducing reliance on imports, and promoting indigenous manufacturing and innovation.



Key Objectives of the Mission: The India Semiconductor Mission encompasses a multi-faceted approach aimed at nurturing a thriving semiconductor industry within the country. One of the primary objectives is to incentivize semiconductor fabrication (fab) units to establish manufacturing facilities in India. By attracting investment and promoting local production, the mission seeks to bolster domestic supply chains and enhance technological sovereignty.

Boosting Research and Development: Research and development (R&D) lie at the heart of the India Semiconductor Mission. The initiative aims to foster a culture of innovation by providing support and incentives for semiconductor-related research projects. By encouraging collaboration between industry, academia, and research institutions, the mission seeks to accelerate technological breakthroughs and drive innovation in semiconductor design, manufacturing, and applications.

Creating Skilled Workforce: A skilled workforce forms the backbone of any thriving industry, and the semiconductor sector is no exception. The India Semiconductor Mission emphasizes the importance of skill development and capacity building in the semiconductor domain. Through training programs, skill enhancement initiatives, and academic partnerships, the mission aims to nurture a pool of talented professionals equipped with the knowledge and expertise to drive India's semiconductor industry forward.



Fostering Collaboration and Ecosystem Development:

Collaboration is key to the success of the India Semiconductor Mission. The initiative seeks to forge strong partnerships between industry stakeholders, government agencies, and research institutions to create a conducive ecosystem for semiconductor innovation and manufacturing. By fostering collaboration and knowledge sharing, the mission aims to leverage collective expertise and resources to propel India's semiconductor industry to new heights.

The India Semiconductor Mission holds immense promise as a catalyst for India's technological and economic growth. By fostering indigenous semiconductor manufacturing and innovation, the mission aims to reduce dependency on imports, drive economic prosperity, and propel India towards technological self-sufficiency. As the country embarks on this transformative journey, the India Semiconductor Mission stands as a beacon of hope, ushering in a new era of innovation, progress, and prosperity for the nation.



TE IT



Understanding Deepfakes: The Rise of Synthetic Media

In an age where the lines between reality and fiction are becoming increasingly blurred, the emergence of deepfake technology has captured the attention of both enthusiasts and skeptics alike. But what exactly are deepfakes, and why are they causing such a stir in today's digital landscape?

Deciphering Deepfakes

At its core, a deepfake is a form of synthetic media created using artificial intelligence (AI) algorithms, particularly deep learning techniques, to manipulate or replace existing images or videos with fabricated content. These AI-generated alterations are often so convincing that they can be challenging to distinguish from authentic footage, blurring the boundaries between truth and fiction in the digital realm.

How Deepfakes Work

Deepfakes rely on advanced machine learning models, such as generative adversarial networks (GANs) or autoencoders, to analyze and synthesize vast amounts of data. By training these models on large datasets of images or videos, deepfake algorithms can learn to mimic the visual and auditory characteristics of a target individual, allowing for the creation of realistic simulations.



Applications and Implications

The proliferation of deepfake technology has led to a myriad of applications, ranging from entertainment and artistic expression to political manipulation and fraud. Some common uses of deepfakes include:

- **Entertainment:** Deepfakes have been employed in filmmaking and visual effects to seamlessly integrate actors into scenes or bring deceased celebrities back to life on screen.
- **Political Manipulation:** Deepfakes have been used to create misleading or false videos of politicians and public figures, potentially influencing public opinion or sowing discord.
- **Fraud and Misinformation:** Deepfakes can be weaponized to fabricate evidence or impersonate individuals, leading to instances of identity theft, financial scams, or reputational damage.

Mitigating the Risks

Addressing the challenges posed by deepfakes requires a multifaceted approach involving technological solutions, regulatory measures, and media literacy efforts. Some potential strategies include:

- **Developing Detection Tools:** Researchers are actively working on developing tools and techniques to detect and mitigate the spread of deepfake content.
- **Enhancing Media Literacy:** Educating the public about the existence and potential impact of deepfakes can help individuals critically evaluate the authenticity of online content.
- **Enforcing Regulations:** Policymakers may consider implementing regulations and guidelines to govern the creation and dissemination of deepfakes, particularly in sensitive contexts such as politics and journalism.

The Road Ahead

As deepfake technology continues to evolve and proliferate, it is essential to remain vigilant and proactive in addressing its potential risks and implications. By fostering collaboration between researchers, policymakers, and technology platforms, we can work towards harnessing the benefits of AI while safeguarding against its misuse and abuse. Ultimately, understanding deepfakes is not just about grasping the mechanics of a novel technology - it's about safeguarding the integrity of our digital discourse and preserving the trust upon which our society depends.

Nitish Jha



SE IT



INTRODUCING DEVIN AI: REVOLUTIONIZING ARTIFICIAL INTELLIGENCE

In the ever-evolving landscape of artificial intelligence (AI), a groundbreaking innovation has emerged, promising to redefine the way we interact with technology and harness its power for various applications. Enter Devin AI – a cutting-edge platform that encapsulates the pinnacle of AI advancements, offering unparalleled capabilities and endless possibilities.

Understanding Devin AI

Devin AI represents a significant leap forward in the field of artificial intelligence, boasting a comprehensive suite of features and functionalities designed to streamline processes, enhance decision-making, and drive innovation across diverse sectors. Developed by a team of visionary researchers and engineers, Devin AI harnesses the latest advancements in machine learning, natural language processing, computer vision, and data analytics to deliver transformative solutions.

Key Features and Capabilities

1. Natural Language Understanding (NLU)

Devin AI possesses advanced natural language understanding capabilities, enabling it to comprehend and interpret human language with remarkable accuracy. Whether processing complex queries, extracting insights from unstructured data, or facilitating seamless communication, Devin AI excels in understanding the nuances of human speech, making it an invaluable tool for various applications, including virtual assistants, customer service bots, and conversational interfaces.



2. Computer Vision

With its state-of-the-art computer vision algorithms, Devin AI can analyze and interpret visual data with unprecedented precision. From image recognition and object detection to facial recognition and scene understanding, Devin AI empowers organizations to extract valuable insights from visual content, automate tasks, and enhance operational efficiency across industries such as healthcare, manufacturing, retail, and surveillance.

3. Predictive Analytics

Devin AI leverages advanced predictive analytics techniques to forecast trends, identify patterns, and make data-driven predictions with remarkable accuracy. By analyzing historical data, identifying correlations, and extrapolating future outcomes, Devin AI enables organizations to anticipate market fluctuations, optimize resource allocation, and mitigate risks, thereby gaining a competitive edge in today's dynamic business landscape.



Applications Across Industries

Devin AI has vast potential across various industries, revolutionizing processes, driving innovation, and unlocking new opportunities for growth and advancement. Some notable applications include:

- **Healthcare:** Devin AI can assist healthcare professionals in diagnosing diseases, analyzing medical images, and predicting patient outcomes, thereby improving healthcare delivery and patient outcomes.
- **Finance:** Devin AI enables financial institutions to detect fraudulent activities, automate underwriting processes, and optimize investment strategies, leading to enhanced risk management and profitability.
- **Retail:** By analyzing customer preferences, optimizing pricing strategies, and delivering personalized recommendations, Devin AI helps retailers drive sales, increase customer satisfaction, and foster brand loyalty.
- **Manufacturing:** Devin AI facilitates predictive maintenance, quality control, and supply chain optimization, enabling manufacturers to minimize downtime, reduce costs, and enhance productivity.

JOEL RODRIGUES



SE IT



THE MATHEMATICS BEHIND ANIMATION : BRINGING ANIMATION TO LIFE

Animation is a captivating art form that has the power to bring imaginations to life. From the whimsical characters of Disney to the dazzling visual effects of Pixar , animation has evolved into a sophisticated blend of artistry and technology. At the heart of this evolution lies mathematics , a silent but essential partner in the creation of animated worlds.

Timing and Spacing : the Rhythm of Animation:

One of the key principles of animation is timing , which determines the pace and rhythm of movement. Imagine a character raising an arm , the time it takes to lift the arm , pause and lower it back down is meticulously calculated. The timing is crucial for creating a natural and believable motion sequence. Spacing , on the other hand , refers to the placement of key poses between movements. By manipulating spacing, animators can create a sense of weight , impact , and fluidity in their animations.

Squash and Stretch : Adding Life to Characters:

Another fundamental principle of animation is squash and stretch, which gives characters a sense of flexibility and elasticity. This technique is based on the physics of how objects deform when subjected to pressure or movement. By applying mathematical formulas to simulate these physical properties, animators can make their characters feel more lifelike and expressive.



Mathematics In Character Rigging And Deformations:

Character rigging is the process of creating a digital skeleton for a character, allowing animators to control its movements. This process involves complex mathematical calculations to ensure that the character moves realistically. Similarly, character deformation, which involves changing the shape of a character's body parts, relies heavily on the mathematical algorithms to achieve smooth and natural-looking deformations.

The Role Of Coding And Programming:

In addition to mathematics, coding and programming play a crucial role in animation. Animations use software and programming languages to create and manipulate characters and scenes. These tools allow animators to handle repetitive tasks, manage complex animations, and achieve more realistic effects.

Real World Applications:

The principles of mathematics in animations are not limited to the big screen. They are also used in various fields such as video games, simulations, and virtual reality. For example, in the gaming industry, mathematics is used to create realistic physics engines that govern the movement of characters and objects within the game world.

Conclusion:

In conclusion, mathematics is the unsung hero of animation, providing the foundation upon which every movement is built. From timing and spacing to squash and stretch, mathematics is the key to creating captivating and lifelike animations. So the next time you watch your favourite animated film, take a moment to appreciate the mathematical precision that goes into bringing those characters to life.

Dinesh Suthar



FE IT



BLOCKCHAIN TECHNOLOGY: BEYOND CRYPTOCURRENCY

Introduction

Blockchain technology, once primarily associated with cryptocurrencies like Bitcoin, has undergone a rapid evolution. Initially conceived as a digital ledger system to facilitate peer-to-peer transactions without the need for intermediaries, blockchain has emerged as a transformative force with wide-ranging implications across diverse industries. Its foundational principles of decentralization, immutability, and transparency have transcended its initial use case, sparking innovation in areas beyond finance. As we delve deeper into the world of blockchain, it becomes evident that its potential applications extend far beyond facilitating financial transactions. From revolutionizing supply chain management by ensuring the integrity of goods to reshaping healthcare systems through secure data management, blockchain's influence continues to expand, offering promising solutions to longstanding challenges.

Understanding Blockchain Technology

1. Decentralization: At its core, blockchain operates on a decentralized network architecture, where data is distributed across multiple nodes rather than being stored in a central location. This decentralization ensures that no single entity has control over the entire network, promoting resilience and reducing the risk of censorship or manipulation. By eliminating the need for intermediaries, blockchain enables direct peer-to-peer interactions, fostering greater efficiency



2. Immutability: One of the defining features of blockchain is its immutability, which refers to the inability to alter or delete data once it has been recorded on the blockchain. Each transaction or piece of information is cryptographically sealed within a block and linked to the preceding blocks in a chain-like structure. This ensures the integrity and permanence of data, making blockchain a tamper-resistant and reliable source of truth.

3. Transparency: Transparency is another key characteristic of blockchain technology. All transactions recorded on the blockchain are visible to all participants in the network, providing a transparent and auditable record of activity. This transparency fosters trust among users, as they can verify the accuracy and legitimacy of transactions without relying on intermediaries or third-party oversight.

Key Components and Architecture

1. Blocks: A blockchain is comprised of blocks, each containing a batch of transactions or data. These blocks are linked together in chronological order to form a continuous chain, with each block referencing the hash (digital fingerprint) of the preceding block. This sequential structure ensures the integrity and immutability of the blockchain, as any attempt to alter a block would require recalculating the hashes of all subsequent blocks.



2. Cryptographic Hashing: Within each block, transactions are grouped together and cryptographically hashed to create a unique identifier for that block. This hash serves as a digital fingerprint, allowing participants to verify the authenticity of the block's contents without revealing sensitive information. Any change to the data within a block would result in a completely different hash, alerting participants to potential tampering.

3. Consensus Mechanisms: Consensus mechanisms are protocols used to achieve agreement among participants in a blockchain network regarding the validity of transactions. These mechanisms ensure that all nodes in the network reach a common consensus on the state of the blockchain, even in the presence of malicious actors or network disruptions. Popular consensus algorithms include Proof of Work (PoW), where participants compete to solve complex mathematical puzzles, and Proof of Stake (PoS), where validators are chosen based on the amount of cryptocurrency they hold.

Working of Blockchain Technology

1. Transaction Submission: The process begins with a user initiating a transaction by creating a digital signature using their private key. This signature serves as proof of ownership and authorization for the transaction.

2. Transaction Validation: Once initiated, the transaction is broadcast to the network, where it awaits validation by network participants known as miners or validators. These participants compete to validate transactions by solving cryptographic puzzles, a process known as mining. Validated transactions are then propagated to other nodes in the network for verification.



3. Block Formation: Validated transactions are grouped together into a block, which is then added to the blockchain by appending it to the existing chain. Each block contains a reference to the previous block's hash, creating a secure and tamper-resistant chain of blocks. Once added to the blockchain, transactions are considered confirmed and irreversible.

4. Hash: A hash is a unique identifier generated from block data using a mathematical algorithm, ensuring integrity and security. Hashes link blocks together, forming an immutable chain where any alteration in data would be easily detected.

5. Execution: execution is the process of validating and implementing transactions or smart contracts within blocks. This is accomplished through consensus mechanisms where nodes in the network execute code and record the results on the immutable ledger. Successful execution ensures the integrity and transparency of the blockchain system.

Future of Blockchain Technology

1. Industry Disruption: The potential applications of blockchain technology extend far beyond cryptocurrency, with industries such as supply chain management, healthcare, and governance poised for disruption. By leveraging blockchain's decentralized and transparent nature, organizations can streamline operations, enhance trust, and mitigate fraud and corruption.



2. Innovation and Adoption: As blockchain technology continues to mature, we can expect to see increased innovation and adoption across various sectors. The emergence of smart contracts, decentralized finance (DeFi), and non-fungible tokens (NFTs) are just a few examples of the innovative applications being developed on blockchain platforms. With greater awareness and understanding of blockchain's capabilities, businesses and governments are exploring ways to integrate this technology into their operations to drive efficiency, transparency, and innovation.

Conclusion

In conclusion, blockchain technology represents a monumental shift in how we manage data and conduct transactions in the digital age. While its roots may lie in cryptocurrency, its potential applications are limitless, offering solutions to complex challenges in diverse industries. As we continue to unlock the full potential of blockchain technology, it's clear that its impact will extend far beyond financial markets, reshaping the way we interact, transact, and innovate in the digital era.



Prof. Chhaya Dhavale, Assistant Professor of IT Department organized an Expert Lecture on SVM Research perspective on 22nd March, 2024 at 11:00 am.



Objectives: The objective of an understanding SVM Fundamental such as define what Support Vector Machines are and their significance in machine learning. The institution behind SVM and its geometric interpretation. Describe the basic components of SVM such as hyperplanes, margins, support vectors. and kernel functions and demonstrate their ability to solve real-world problems using their technical knowledge.



Doing SVM Numerical on Smart Board

Description:

Through numerical examples, the speaker demonstrated the inner workings of SVM with precision and clarity. They meticulously calculated the distances between data points and the decision boundary, showcasing how SVM elegantly delineates between classes by strategically positioning the hyperplane to minimize classification errors. The pinnacle of the presentation occurred when the speaker extended an invitation to the audience to observe the operational effectiveness of Support Vector Machines (SVM). Employing a concise code snippet and a judicious selection of data, she instantiated a machine learning model that dynamically processed across the screen, seamlessly categorizing images with remarkable precision.

PO's Mapped: PO1, PO2, PO3, PO4, PO5, PO12



Demonstrating SVM classifier for Image Dataset

FACULTY ACHIEVEMENTS

Prof. Martina D'souza, Assistant Professor of IT Department delivered an Expert talk to BE-EXTC on the topic Exploring Web on Monday, 18th March 2024. Prof. Tejal Deshpande coordinated the same.



Prof. Menna Ugale, Assistant Professor of IT Department published an article in book named “Lecture Notes in Networks and Systems, vol 868”.



Prof. Meena Ugale, Midhunchakkaravarthy, J. (2024). Machine Learning-Based Image Forgery Detection Using Light Gradient-Boosting Machine. In: Kumar, S., K., B., Kim, J.H., Bansal, J.C. (eds) Fourth Congress on Intelligent Systems. CIS 2023. Lecture Notes in Networks and Systems, vol 868. Springer, Singapore. https://doi.org/10.1007/978-981-99-9037-5_35

Prof. Stella J, Assistant Professor of IT Department completed a course on "Introduction to Internet of Things" on March 20,2024 from Cisco Networking Academy.



 Networking
cisco Academy

Certificate of Course Completion

Stella J

has successfully achieved student level credential for completing the Introduction to Internet of Things course.

The student was able to proficiently:

- Explain how IoT and Digital Transformation are positively impacting businesses and governments.
- Explain the importance of software and data for digital businesses and society.
- Explain the benefits of automation and artificial intelligence for digital transformation.
- Explain the concepts of Intent Based Networking.
- Explain the need for enhanced security in the digitized world.

  Scan to Verify

Laura Quintana

Laura Quintana
Vice President and General Manager
Cisco Networking Academy

March 20, 2024



Prof. Jyotsna More, Assistant Professor of IT Department completed a course on Edge computing from Jan-Mar 2024.



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to
JYOTSNA MORE
for successfully completing the course

Edge Computing

with a consolidated score of **71** %

Online Assignments	24.17/25	Proctored Exam	46.94/75
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Total number of candidates certified in this course: **776**

Pathish

Prof. B. V. Ratish Kumar
Chairman, Centre for Continuing Education
IIT Kanpur

Jan-Mar 2024
(8 week course)

Satyaki Roy

Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur



Indian Institute of Technology Kanpur



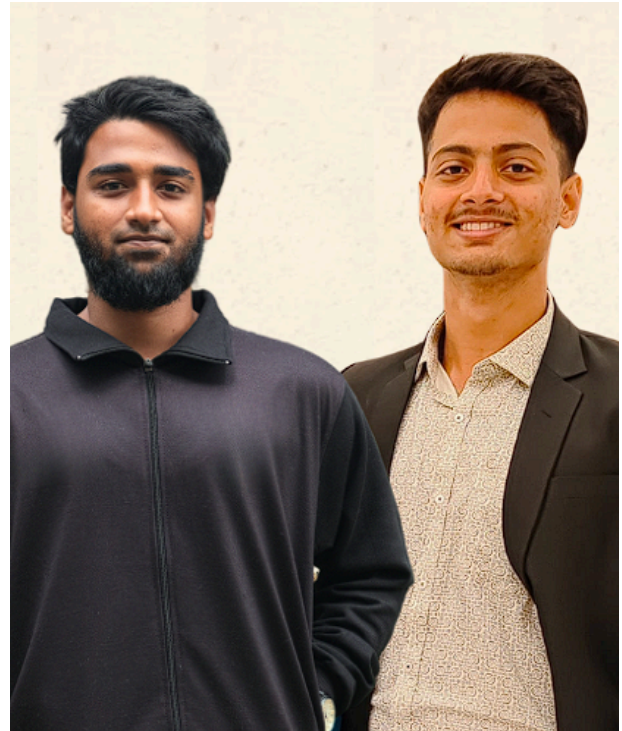
Roll No: NPTEL24CS66S350200687

To verify the certificate



No. of credits recommended: 2 or 3

Pratham Singh and Khizar Shaikh from TE IT secured 2nd runner up in Table Tennis Duo.



Merin Reji from BE IT received a certificate for Women of Creativity.



Harshit Jain from TE-IT secured 1st place in Fitness Challenge in Sparx 2024.



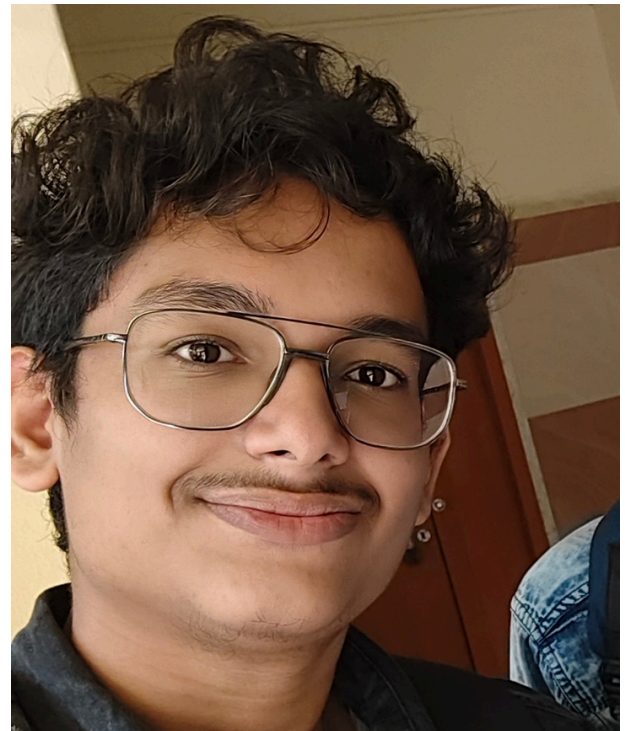
Aditi Satam from TE-IT organized TEDxXIE 2024 as Co-Organizer and also secured 3rd place in Badminton Girls and 2nd place in Box Cricket Girls in Sparx 2024.



Sanjali Thorat from FE-IT secured 1st runner up in Rink Football, 1st place in Badminton Girls, 1st place in Kabbadi Girls and 1st place in Fitness Challenge Girls in Sparx 2024.



Piyush Singh from TE-IT secured 1st runner up in Arm Wrestling in Sparx 2024.



Siddhi Nandkishor Awlegaonkar from TE-IT was appointed as the Arts Head for TedxXIE, where she lead the Arts Team and contributed creative ideas for the event's decoration & venue setup.



Srishti Athreya from SE-IT ranked 1st in the Odd Semester and hosted both the TEDxXIE event and Convocation Ceremony.



Prathamesh Vaidya from TE-IT ranked 1st in the Odd Semester.



Vivek Singh from TE-IT secured 2nd runner up in Badminton in Sparx 2024.



Aditya Nalawade from TE IT served as the Marketing Head for TedxXIE, where he was responsible for securing sponsors and managing the event's finances.



Akib Sayed from TE IT was appointed as the Publicity Head for TedxXIE, where he oversaw the promotional activities and public relations efforts to enhance the event's visibility and reach.





Khizar Shaikh, Nelson Kolas and Rohan Jaiswal from TE IT won 1st place in a hackathon organized by CSX Committee.



Mangesh Pangam, Saish Rane, Rakshita Sarap and Divyajothi Raja from TE - IT were honored by Fr. Dr. John Rose S.J. at the convocation ceremony for achieving 1st place in the mini-project competition (TE IT). This recognition underscores our team's dedication, ingenuity, and collaborative spirit, and I couldn't be prouder of our collective efforts.



Nithin Nayak, Himanshu Tiwari, Sachin Vishwakarma, Chandan Singh Rajpurohit from SE - IT were honored by Fr. Dr. John Rose S.J. at the convocation ceremony for achieving 1st place in the mini-project competition (SE IT).

CONVOCATION CEREMONY

The Convocation Ceremony was held on 9th of March 2024, where Student Council team volunteered in overall organisation and execution of event. The students of IT Department who were part of the volunteering team were:-

- Harshvardhan Gupta - TE IT
- Shreya Jadhav - TE IT
- Siddhi Awlegaonkar - TE IT
- Harshit Jain - TE IT
- Parth Choudhary - TE IT
- Rupesh Darpe - TE IT
- Saahil Chaurasia - TE IT
- Vedant Chaudhari - TE IT
- Vedang Nijap - TE IT

The convocation ceremony for the graduating batch of 2023 was a momentous occasion filled with pride and accomplishment. Graduates, their families, faculty, and esteemed guests gathered to celebrate the accomplishment. The ceremony featured inspiring speeches, heartfelt moments of gratitude, and the conferral of degrees, marking the transition of the class of 2023 from students to alumni, ready to embark on new adventures and make their mark on the world.

Convocation Ceremony



IT Graduates of Batch 2023 along with the IT faculty



IT Graduates of Batch 2023 received an award for Best Department



IT Graduates of Batch 2023 received an award for Best Video



IT Graduates of Batch 2023 received an award for Best Result

Industrial Visit for TE - IT

Industrial visit for TE-IT class was arranged to Central Railway, Signal & Telecom workshop, Byculla on 15th March 2024. The purpose of the visit was to gain practical insights into the functioning and operations of a train, its signal and coordination with the control room. Dr. Jaychand Upadhyay and Prof. Martina D'souza coordinated the visit.



Industrial Visit for SE - IT

Industrial visit for SE-IT class was arranged to Adani Thermal Power Station, Dahanu on 11th March 2024. To provide students with firsthand exposure to the operational mechanisms, technologies, and safety protocols employed in a thermal power station, fostering a deeper understanding of energy generation processes and their role in meeting global energy demands.



Parents Teacher Meeting

PTM was scheduled on Saturday 16th March 2024 from 10:00 am to 11:00 am in Seminar hall for the Students & Parents of SE, TE and BE.



Education Fair

An Education Fair was arranged to provide guidance for higher studies by EDWISE - Indian & Overseas Higher Education Consultants from 11:00 am to 1:00 pm in Seminar hall.



OUR AMAZING CREW

- **Prof. Stella J (Staff Co-ordinator)**
- **Harshvardhan Gupta (Editor-in-Chief)**
- **Shreya Jadhav (Student Co-ordinator)**
- **Siddhi Awlegaonkar (Reporter-in-Charge)**
- **Bibhor Mishra (SE Student Editor)**
- **Parth Choudhary (Graphic Designer)**
- **Gayatri Dyavanapalli (Asst. Graphic Designer)**
- **Sachin Vishwakarma (Documentation Head)**
- **Shirley Methri (Student Reporter)**
- **Chandan Singh Rajpurohit (Student Reporter)**
- **Himanshu Tiwari (Student Reporter)**