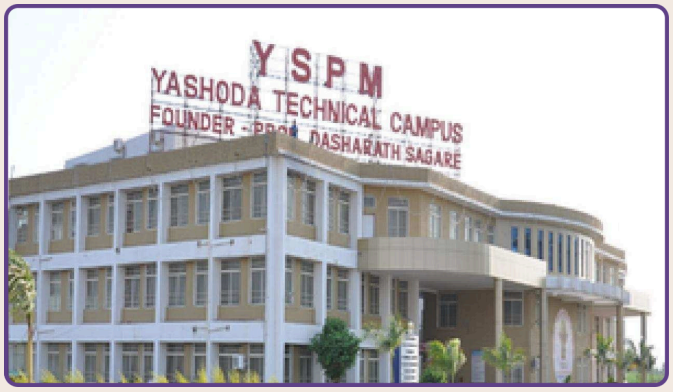
Yashoda Shikshan Prasarak Mandal's

Yashoda Technical Campus, Satara.

CISCO-TALK MAGAZINE 2020-21



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Vision of Department:-

To lead in technical, quality education, innovation, research for development of sustainable & inclusive technology for the society.

Mission of Department:-

- **M1 :** To create ambience of academic excellence through state of art infrastructure
- **M2 :** To create student-centric pedagogy that will lead to employability.
- **M3 :** To create a software engineering professional with knowledge of multidisciplinary fields, can provide innovative products & service to society.
- **M4 :** To train and motivate the students for lifelong learning, employability, and entrepreneurship

Program Educational Objectives (PEOs)

PEO1: Equipped to analyze and solve industry problems using a strong foundation in engineering sciences and computer science and engineering.

PEO2: Skilled in solving real-world problems in a multidisciplinary environment using modern tools and techniques.

PEO3: Developed into an ethical IT professional who contributes to societal and environmental progress.

Program Specific Outcomes (PSO's)

PSO1 : To be able to give solution in networking, OOP, web development, cloud, IOT on real life application using open source software.

PSO2 : To be able to acquaint with modern trends in industry/research giving novel solution to existing social problems.

Publications

Sr. No.	Title of paper	Name of the author/s	ISSN Number
1	Smart Health Consulting Android Applications	Dr. Sarita V. Balshetwar, Ms. Snehal S. Dhokate, Ms. Kiran V. Shinde, Ms. Amruta A. Kalugade, Mr. Shubham J. Mohite,Mr. Akash S. Gade	eISSN: 2349-5162
2	Automated Visual Assessment From Optical Data Sets To Enhance The Accuracy Of Data Analysis	Syed Khasim, Neelamadhab Padhy, Sarita V Balshetwar, G Sivakumar, Shaik Shakeer Basha, PN Jeipratha	2008-8109
3	Air Quality Monitoring System Using Arduino	Ashwini Patil , Nikhita Chougale ,Gayatri Mule	e-ISSN:2395-0056,p-ISSN:2395-0072

Research

Sr. No.	Title	Inventor's Name	Patent Number
1	AWS Cloud Data Performance Improved using Machine and Deep Learning Programming	Dr.Sarita vitthal Balshetwar	2021101128
2	Predict Whether Income Exceeds Defined Set Threshold Per Year Using Deep Learning	Dr.Sarita vitthal Balshetwar	202114007440

Technical Articles

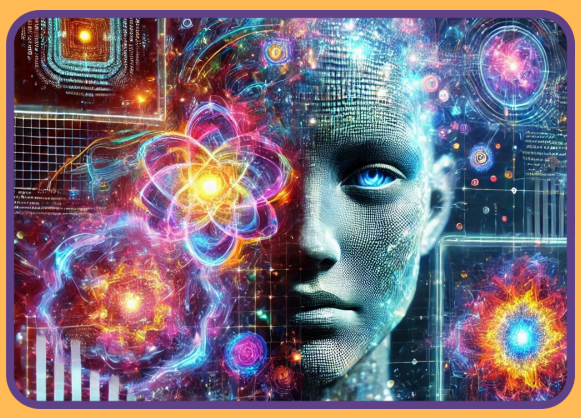
Blockchain Technology Beyond Cryptocurrencies

Blockchain evolved beyond digital currencies, finding applications in supply chain management, healthcare, and secure digital identities. The rise of Decentralized Finance (DeFi) and Central Bank Digital Currencies (CBDCs) reshaped financial systems, offering faster and more secure transactions. Smart contracts enabled automated, transparent, and tamper-proof agreements in industries such as insurance and real estate. Additionally, blockchain played a vital role in securing data and reducing fraud in various business sectors.- **Shinde Shraddha (BTech)**

Advances in Autonomous Vehicles and Smart Transportation

AI-driven autonomous vehicles made significant progress in perception, decision-making, and real-time navigation. Companies like Tesla and Waymo refined self-driving technology using deep learning, LiDAR, and computer vision. 5G-enabled Vehicle-to-Everything (V2X) communication improved road safety by allowing vehicles to exchange information with traffic signals, pedestrians, and other cars. AI also optimized logistics and fleet management, reducing costs, improving delivery efficiency, and supporting the development of smart urban transportation systems.- **Zanjurne Trupti(BTech),Kamble Rutuja(TY)**

The Rise of Generative AI and Deep Learning Models

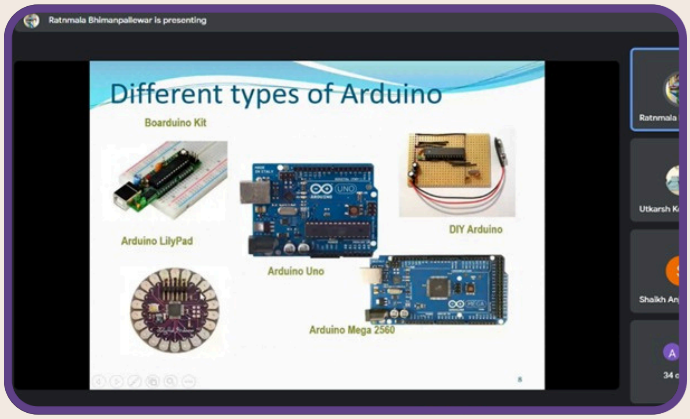


Generative AI, powered by deep learning models like GPT-3, DALL·E, and StyleGAN, transformed content creation across multiple industries. AI-driven tools automated writing, image synthesis, music composition, and even software development, increasing efficiency and creativity. These advancements enabled businesses to generate personalized marketing content, realistic deepfake videos, and AI-assisted coding solutions. Additionally, AI- powered conversational agents improved virtual assistants, customer support chatbots, and interactive storytelling applications, further pushing the boundaries of human-AI collaboration.-**Phadatare Nita (BTech)**

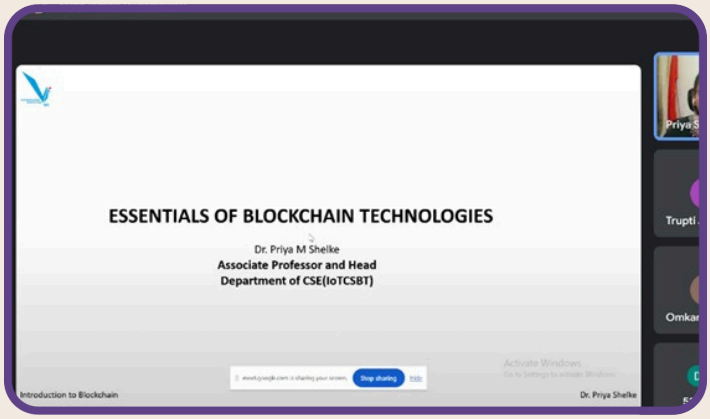
Edge AI and 5G-Powered Smart Devices

The integration of Edge AI and 5G networks enabled real-time processing on smart devices, reducing reliance on cloud computing while improving security and privacy. Edge computing allowed AI models to run on IoT devices, smart cameras, and industrial automation systems, enabling faster decision-making with minimal latency. In healthcare, AI-powered wearables monitored patient vitals in real-time, while smart factories used predictive maintenance to enhance operational efficiency. The synergy between 5G and AI also accelerated advancements in augmented reality (AR), virtual reality (VR), and autonomous systems.- **Yele Akshay Sukhdev (BTech),Patil Sakshi(TY)**

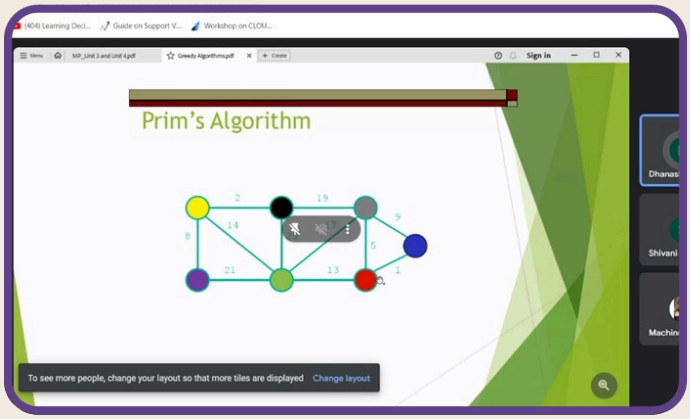
Activities



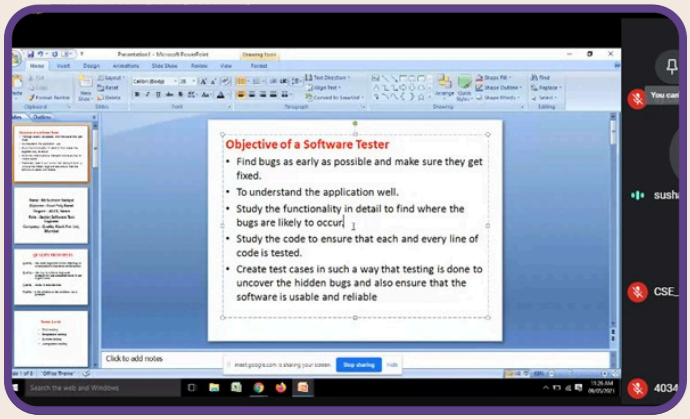
Expert Session on IoT physical devices Arduino and RaspberryPi



Expert Session Essentials of Blockchain



Expert Session on Real time application of greedy approach of algorithm design



Career in Software Testing, Prerequisites and Opportunities

Online Expert Session on "Green Computing"

Student Development Program on " Web Development(Android)"

Facilities

Computer Lab

Library

Digital Classroom

Hostel

Transportation

Wi-Fi Campus

Editor Team

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- **Ms.Vaibhavi- SY ,CISCO Deshpande**
- **Prof. U M Bhokare**