



# IT NEWS LETTER

Sanjivani Rural Education Society's

**Sanjivani College of Engineering, Kopargaoon-423603**

(An Autonomous Institute Affiliated to Savitribai Phule Pune University, Pune)

NAAC 'A' Grade Accredited, ISO 9001:2015 Certified

**Department of Information Technology**

UG Program NBA Accredited

Website : [www.sanjivanicoe.org.in](http://www.sanjivanicoe.org.in)

## VISION

To develop world class IT professionals through quality education.



## Mission of Department

To create Academic Excellence in the field of Information Technology through Education, Industry Interaction, Training and Innovation to improve quality of life of people.

We are committed to develop industry competent technocrats with life-long learning capabilities and moral values.

## FROM HOD'S DESK



Dear Readers,

Firstly, let me welcome our First Year Students... They have chosen to be part of the IT Family and their numbers are really encouraging for the department. I also want to congratulate our faculty members for continuously working towards academic achievements and recognition in the form of awards, doctorate degrees, and of course helping the students continuously for their betterment.

Keeping in mind that to teach is to touch a life forever. We have tried to encompass academics, co-curricular activities, sports, and life-skills learning. We have had good interaction with our alumni and that is helping our students. We are seeing the results... Our first autonomy batch has got a good response from companies. More than 70% of our students are already placed in the first semester of the final year with good packages. I have a concern too: In many advanced and developing economies, companies have started laying-off their employees to sustain themselves in the markets. We will be hit by this scenario sooner or later... We need to remember one thing this is not the END... We hope that our student's journey with us will surely help them yield fruitful results and envisage our shared dreams and to dream a new.

All the very best my warriors.... As said by Albert Einstein, "A ship is always safe at the shore – but that is NOT what it is built for". So mark your presence in the outer world with our love and the learning you have had here... Wish you the BEST ahead...

**- Dr. Madhuri Jawale**  
Professor and Head

## FROM EDITOR'S DESK



Dear Readers,

It's my pleasure to launch this first edition for academic year 2022-23. I am thankful to all the students, faculty members, Head of Department, Dr. Madhuri Jawale, Our Director, Dr. A. G. Thakur, our Management and our proud alumni who have contributed and supported me to complete this edition.

I am very delighted to see the outcome of our autonomy batch. The curriculum came out to be a blend of future-oriented topics keeping in touch with the basics. Our Participation in various events and internships is getting counted. We are able to contribute a little to our own institution and sister institutions by creating software for everyday tasks. The efforts of our staff and students are paying off... Let us keep the zeal alive and work for a better tomorrow...

In the growing world of information flood, I must say "Pay attention to your ability to focus on a task. It is a skill that leads to success".

Best Luck!! See you in the next Edition.

**Ms. Kanchan Patil,**  
Editor

## NEWS AT A GLANCE

- Department of Information Technology had organized Induction Program for F.Y. B.Tech students on 7<sup>th</sup> November 2022 in IT Department. The main objective was to get the students aware about the department, faculty members, facilities available in the department



etc. Dr. Devyani Jadhav coordinated the event. In the beginning, Dr. Madhuri Jawale, Head, IT department welcomed and congratulated all the students for being a part of Sanjivani family. Later, all the faculty members introduced themselves and given the information regarding different bodies such as ITERA, CSI and portfolios such as SAP, Internship Opportunities, Oracle Academy, NSS, Industrial visits, Alumni network etc. After this discussions, students visited department and then main campus.



Some glimpses of the event

Under the same program, Industry Visit was planned for FY IT students at Rural Shores Pvt Ltd, Kopargaon on 8<sup>th</sup> November 2022. Total 65 Students of Department visited the Industry and 3 Faculty Members, Dr. Nikhil Patankar, Mr. Nitin Shelke and Mr. K. Dineshkumar accompanied the students. The major objective of Rural Shores is to give students the chance to work in the area of integrated IT and Business Process Outsourcing solutions. Mr. Vijay Pratap Singh gave the students a thorough presentation on the Job process and Client information. Most of Rural Shores' clients are HDFC Life, ICICI Prudential and Bajaj Finance.



- Department has organized the Parents Meet for S.Y., T.Y. and B.Tech classes on 17<sup>th</sup> October 2022 at 01.00 P.M. in MBA Hall. The main objectives were To develop and maintain good communication among the Parents and Faculty, To improve the performance of students in Academics as well as in Extra Curricular activities, To provide details about all different activities initiated by the department for overall development of students, To provide guidelines about the exam pattern in autonomous syllabus, To get the suggestion and feedback from parents about the development of their



wards. The Meeting is started with welcoming the Director and all Parents. Director Dr. A. G. Thakur along with Head of IT Dept. and Parents inaugurated the function with Saraswati Poojan.



Parent's Meet Inauguration

During the Meet, Dr. A. G. Thakur, Director Sanjivani COE Kopergaon has addressed the audience. In his speech, he has given details about Industry Institute Interaction initiatives taken by college. He has put lights on important activities like Sanjivani Thought Leaders, Sanjivani My Story Board, Sanjivani I-Connect etc. and also on MoUs signed with Celebal, Reveature and AI Automaton, Virtusa and their benefits along with how all students are being trained and benefited for their placement in future. Also, sir has appealed all parents to keep trust on their wards and allow them to do some challenging task which will help their wards to boost their own confidence and can interact with anyone. Sir also focused on all T & P activities.



Dr. M. A. Jawale, HOD has introduced the IT department and highlighted that the Department is accredited by NBA, New Delhi and NAAC A Grade accreditation. Dr. Jawale has given information about various activities that was held and currently going on in IT department like SAP Training Center, Red Hat Academy Center, Language Laboratory, Capsule Courses, NPTEL Certification Courses and Coursera Digital Library etc. and how these activities are beneficial to make students employable.

Many parents have appreciated the IT dept, Sanjivani COE Kopergaon about teaching learning process and different activities conducted for overall development of students. The event was concluded by Vote of thanks and every parent were met the mentors and subject teachers of their wards and discussed the progress of their ward. The event was coordinated by Dr. Devyani Jadhav and all staff of IT Department.



Some glimpses of the Parent Meet





- Department is always focusing on outcome based education. In the same line, as outcome of IoT laboratory, Department had organized an IoT based Project Exhibition on 3<sup>rd</sup> December 2022. For the exhibition 79 students from TY participated in groups. Honourable Shri. Amit Dada Kolhe, Managing Trust SGI, Mr. Vijay Naidu, Chief Technological Officer, Dr. A. G. Thakur, Director Sanjivani College of Engineering along with Dr. Madhuri Jawale, Head, Department of Information Technology inaugurated the event.



During the exhibition, students of TY IT demonstrated innovative projects like a Smart Water Irrigation system,

Smart Attendance using an RFID Card, Smart Dustbin, Smart Lab Using a Motion Sensor, Water Level and Water Flow Measurement for Water Tanks, Smart Blind Stick, Smart Gas Leakage Detection, Smart Speech to Text Conversion, etc. Mr. Aanad Barbind and Dr. Nikhil Patankar guided the students to provide working examples of how and where IoT may be applied in modern life. Mr. Rohit Nikam coordinated the event under the banner of the ITERA-Department Association.



Honourable Shri. Amit Dada Kolhe, Managing Trustee, SGI guiding the students.

The inauguration ceremony of **IOT based Smart Sprinkler Switching using Mobile App** for campus lawn was held on 26<sup>th</sup> January 2023.







Some glimpses of the event

- As a part of 4 hours Skill Based Credit Course, Department has organized an Industry Training for all the students of TY. Mr. Milind Adpaiker, Connectwise, Canada was the expert for the training. Under this training students were divided into groups and given a problem definition to implement which will address the solution to the problems in the society. Students also learn the different concepts such as Overview of frontend-backend using reference technologies, devops, CI pipeline, github actions, Docker hub and CI/CD pipeline etc. Along with the theoretical knowledge, students applied the gained knowledge on their project implementation. Dr. Yogesh Deshmukh, Ms. Kanchan Patil, Mr. Chetan Bawankar, Ms. Megha Kurhe and Mr. Nilesh Shelake guided the students.
- Let us congratulate our students Kulkarni Surabhi Ketan, Kale Ashwini Dattatray, Game Arpita Balasaheb, Kurund Chaitali Balasaheb, Dhage Prashant Shivnath, Devhare Akash Bhagwan, Aher Siddharth Bhausahab, Aware Bhushan Haribhau, Naikwade Vaishnavi Vinod, Dhorde Prithviraj Shivaji, Pranali Dilip Dhamale, Patil Harshal Pravin, Mali Anjali Kailas, Maind Rohit Vijay for successfully completing Global Certification in SAP ABAP which is valid worldwide. All the students are certified as “SAP Certified Development Associate –

ABAP with SAP NetWearer 7.50”. Through this SAP program, our students **Mr. Soham Suryawanshi (2022 batch)**, **Mr. Akash Deore (2022)** placed in **BOSCH, Bangalore with package of 6.5LPA**. **Mr. Tejas Deshmukh (2023 batch)** placed in **TCS**. Mrs. Kanchan Patil is working as SAP Department Coordinator.

- Department has organized an interactive session on the topic “**How to prepare for being placed in SAP based company**” on 7<sup>th</sup> December 2022 at 07:00pm in online mode. Mr. Soham Suryawanshi, our alumni placed in BOSCH, Bangalore guided final year students regarding preparation and gave some tips to crack the interview.
- Under the UiPath Academic Alliance recognize educational partnership with Sanjivani College of Engineering, Kopergaon 60 students from TY IT and 15 students from SY IT have successfully completed the RPA Developer Foundation course in this semester. Dr. Yogesh Deshmukh is coordinating the same.
- Department has conducted Eight Student Learning Assessment on various Frameworks under PARAKH by AICTE to assess and improve technical student's skills all over India. All FY, SY, TY students did the registrations of PARAKH by AICTE and completed the eight self-assessments. This will help the student's to build confidence and motivate them to make progress in personal and professional careers. Also to develop new learning programs that match with the student' interest and their skill sets.
- Our NSS team is always trying to work for society and organizes different activities. National Service Scheme unit of Sanjivani College of Engineering, Kopergaon organized the event of POSTER MAKING COMPETITION under the banner of Red Ribbon Club (RRC) on the occasion of WORLD AIDS DAY. Event was held on 18th November 2022, In the event 145+ students participated from Diploma, 11<sup>th</sup>, 12<sup>th</sup>, D Pharm, Degree, BBA, BCA etc.







On the occasion of NSS day, 24th September 2022 NSS unit visited Adarsh Gram PATODA. Patoda is famous for its uniqueness, cleanliness, & innovations. NSS unit of Sanjivani with 40 volunteers and 4 staff members participated.



Mahatma Gandhi & Lal Bahadur Shastri Jayanti was celebrated. On the occasion of same, A event “स्वातंत्र्याची वेशभूषा” was conducted. In the Event, 13 students came in different freedom fighters costume & given the speech on their role.



Dr. Nikhil Patankar is working as the departmental NSS coordinator.

## CLASS TOPPERS

### Class Toppers of July 2022 Exam

#### BEIT

Ms. Goraksha Akshada Pramod	: 9.73 SGPA (1 <sup>st</sup> )
Ms. Sangale Poonam Dilip	: 9.73 SGPA (1 <sup>st</sup> )
Ms. Kale Ashwini Dattatray	: 9.59 SGPA (2 <sup>nd</sup> )
Mr. Cholake Pratik Tushar	: 9.45 SGPA (3 <sup>rd</sup> )
Ms. Magar Shivani Vikram	: 9.45 SGPA (3 <sup>rd</sup> )
Mr. Shaikh Parvej Anwar	: 9.45 SGPA (3 <sup>rd</sup> )
Ms. Wakte Mayuri Anil	: 9.45 SGPA (3 <sup>rd</sup> )
Ms. Turkane Vaishnavi Jalindar	: 9.45 SGPA (3 <sup>rd</sup> )

#### TEIT

Ms. Abhale Sonali Prakash	: 8.63 SGPA (1 <sup>st</sup> )
Ms. Shah Shivani Praful	: 8.63 SGPA (1 <sup>st</sup> )
Ms. Naikwade Vaishnavi Vinod	: 8.53 SGPA (2 <sup>nd</sup> )
Ms. Gujarathi Nandini Kumar	: 8.53 SGPA (2 <sup>nd</sup> )
Mr. Jawale Aniket Shrikrishn	: 8.53 SGPA (2 <sup>nd</sup> )
Ms. Kharat Nikita Ashok	: 8.37 SGPA (3 <sup>rd</sup> )
Ms. Shirole Shital Rajendra	: 8.37 SGPA (3 <sup>rd</sup> )

#### SEIT

Mr. Gunjal Tejas Gokul	: 9.18 SGPA (1 <sup>st</sup> )
Ms. Aher Vaishnavi Sanjay	: 8.77 SGPA (2 <sup>nd</sup> )
Ms. Rahane Shital Anna	: 8.68 SGPA (3 <sup>rd</sup> )
Mr. Shelke Sanket Chandrabha	: 8.68 SGPA (3 <sup>rd</sup> )

## TRAINING & PLACEMENT NEWS

Congratulations to the following students for being placed in various companies with high salary package



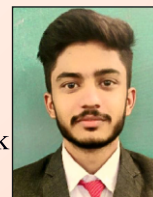
Ms. Kharat Nikita Ashok,  
Celebal Technologies



Ms. Shah Shivani Praful,  
Celebal Technologies



Mr. Sharma Shivam Dilip,  
Celebal Technologies



Mr. Jadhav Vishal Walmik  
Celebal Technologies



Mr. Daware Sanket Sanjay,  
Celebal Technologies



Mr. Saurabh Patil,  
Celebal Technologies





Mr. Ghogare Shubham Satish,  
Celebal Technologies



Mr. Kokane Rushikesh  
Bhausaheb,  
Celebal Technologies



Mr. Jawale Aniket Shrikrishna,  
Celebal Technologies



Mr. Zaware Rahul Raosaheb  
Celebal Technologies



Mr. Lad Omkar Kailas  
Celebal Technologies



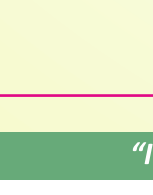
Mr. Natkar Dnyaneshwar  
Bapurao  
Celebal Technologies  
Mr. Kumawat Shubham Anil  
Celebal Technologies



Ms. Nikita Kacharu Nikam  
Celebal Technologies



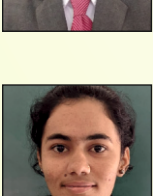
Mr. Patil Aniruddha Ajay  
Celebal Technologies



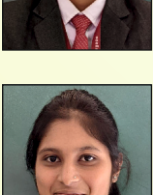
Ms. Abhale Sonali Prakash  
Celebal Technologies



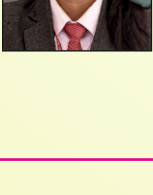
Ms. Pote Shruti Sunil  
Celebal Technologies



Mr. Ajay Navnath Chavhan  
Celebal Technologies



Ms. Maheshwari Shivaji Shinde  
Celebal Technologies



Ms. Shital Rajendra Shirole  
Celebal Technologies



Ms. Vaishnavi Vinod Naikwade  
Celebal Technologies



Ms. Shrutika Shantaram  
Jadhav  
Celebal Technologies



Ms. Pawar Vaishnavi Sunil,  
Celebal Technologies



Ms. Valte Shreya  
Purushottam  
Celebal Technologies



Ms. Shubhangi Sampat Gunjal  
Celebal Technologies



Ms. Vaishnavi Satish  
Bhosale,  
Celebal Technologies



Ms. Gayatri Popat Labhade  
Celebal Technologies



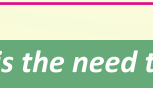
Mr. Sayyam Anil Gangwal  
Colgate Palmolive



Ms. Sakshi Bhausaheb Gadhave  
Virtusa



Ms. Nandini Kumar  
Gujarathi,  
Colgate Palmolive



Ms. Shital Kailas Kale,  
Colgate Palmolive



Ms. Arpita Balasaheb Game  
Colgate Palmolive



Mr. Aher Siddharth Bhausaheb  
Netwin



Mr. Ranmale Saisagar  
Rajendra, iBrain



Mr. Momale Akash Shivaji,  
KPIT Technologies



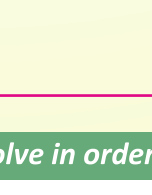
Mr. Navale Sandip  
Babasaheb  
KPIT Technologies



Mr. Bendre Akshay  
Pandharinath  
KPIT Technologies



Mr. Aher Siddharth  
Bhausaheb, NTT Data



Mr. Aher Siddharth  
Bhausaheb, NTT Data







Mr. Sayyam Anil Gangwal  
Deloitte



Mr. Rokade Tushar Ganpat  
Celebal Technologies



Ms. Sanjana Satish Amale  
Deloitte



Ms. Wable Sayali Sanjay  
Deloitte



Ms. Pranali Dilip Dhamale  
Deloitte



Mr. Sarthak Arjun Murtadak  
Deloitte



Ms. Anjali Kailas Mali  
Deloitte



Mr. Wankhedkar Gaurav  
Devendra, Deloitte



Mr. Zahir Riyaj Pathan,  
Deloitte



Mr. Bornar Kunal  
Shahshikant, Deloitte



Mr. Dhage Prashant  
Shivnath, TCS



Mr. Tanpure Pradyumna  
Ajit,  
Deloitte



Mr. Devhare Akash Bhagwan,  
TCS



Mr. Gorhe Kaustubh  
Amol, Ibrain



Mr. Shaikh Asad Sajid,  
Celebal Technologies

## RECENT DEVELOPMENT

We are glad to share that, Faculty members with students are developing projects and providing consultancy services for other departments, colleges and organizations.

- Mr. Kalpanath Gayke along with his guide Mrs. Kanchan Patil has developed Website for Sanivani Junior College, Kopargaon which helps college to update day-to-day activities, achievements etc. and helps other people to connect with college.



Dr. Madhuri Jawale, Head, Department of IT appreciating Kalpnath and his guide for this work

## STUDENT PARTICIPATION

- At Sanjivani, we prepare the leaders of tomorrow. Ms. Vaishnavi Naikwade successfully completed her 3 months Internship in the University of New Brunswick, Canada under the guidance of professor Dr. Janet Light. The internship has started on 6th June 2022 and ended on 28th August 2022. The internship helps students from India to work in collaboration with Canadian universities as research intern. This helps students to gain exposure to Canadian research environment. This internship is sponsored by collaboration of AICTE from India and MITACS from Canada.





## Department of Computer Sciences and Applied statistics @UNBSJ

- In this Semester, 14 students have completed Internship provided by Winjit Technologies, Nashik in the field of web development framework such as Node.js, Angular JS, SQL as well Frontend and Backend development, Web Application etc. 30 students got internship opportunity to work with Celebal Technologies in the field of Powerapps, Data Engineering and Data Science. 1 student got an internship opportunity to work with Virtusa. 5 students got the internship opportunity in Linkcode Technologies in the field of Full Stack Java Internship, Full Stack Python Internship Mean Stack Internship, Machine Learning and AI.
- We are happy to share that all the students of department have registered for NPTEL course and 120 students have successfully completed the course on **Programming in Java** and 86 students successfully completed different coursera courses.
- 137 students from the department have successfully completed 8 week **Salesforce Developer/ Admin Virtual Internship** provided in association with AICTE, Persistent.
- All the students of SY completed Infosys Springboard Certification on **“Basics of Object Oriented Programming”** under the academic course Object Oriented Programming. Course Teacher Mrs. Kanchan Patil guided all the students. Along with this course, students have also completed the course on **“Github Fundamentals”**.

- From TY, students completed 272 Infosys Springboard Certifications on Building Web Applications with TypeScript, Angular and React, Programming Languages, Github Fundamentals etc.
- Students of Sanjivani College of Engineering participated in District level Youth Inspiration Network Kala Mahotsav organized by Sakal in association with PREC, Loni. From the department, Mr. Rohit Salve has secured 2<sup>nd</sup> position in Ramp Competition and 3<sup>rd</sup> position in Solo singing whereas Mr. Aditya Sakure, Mr. Vaibhav Chopade, Ms. Vaishnavi Naikwade, Ms. Vaishnavi Dhawade & group secured 3<sup>rd</sup> position in Skit Competition.



## FACULTY PUBLICATION & PARTICIPATION

- We are happy to share that, Dr. Devyani Jadhav has successfully defended her Ph.D. in Computer Science and Engineering, titled **“Detection of Swine Flu Influenza using Machine Learning and IoT”** from SJJTU, Rajasthan.



Hon. Amitdada Kolhe, Manageing Trustee, SGI along with Dr. A. G. Thakur, Director, SCOE and Mr. A. A. Barbind, felicitating Dr. Jadhav





Team IT Congratulating Dr. Jadhav

- Mrs. Devyani Jadhav received '**Lady Engineer Award**' in recognition of excellent performance and remarkable work in the engineering field by Institution of Engineers, India IEI, Ahmednagar Local center on 15<sup>th</sup> September 2022.



- Happy to share that our 2 faculty members Mrs. Megha Kurhe and Mr. Nitin Shelake have been recognized in **TTT (Train The Trainer) Program of Virtusa** for their outstanding performance during training, capstone project submission & sprint submissions. These faculties are certified by Virtusa & eligible to train our students for '**Java Full Stack**' under '**Virtusa Centre of Excellence**'.



Hon. Amitdada Kolhe, Managing Trustee, SGI along with Dr. A. G. Thakur, Director, SCOE, Dr. D. B. Kshirsagar, Head, Computer Engineering and Dr. Madhuri Jawale, Head, IT felicitating Mr. Shelke and Mrs. Kurhe

- Dr. Yogesh Deshmukh received **Gold medal** & was topper whereas Dr. Rameshwar Chintamani, Mr. Rohit Nikam, Mrs. Kanchan Patil, Mr. Nitin Shelke, Mr. Dinesh Kumar, received **Silver medal** and Mr. S. Muthuraj, Mr. Prasad Mutkule, Mrs. Megha Kurhe has completed NPTEL Certification Examination, October 2022 successfully in the subject "**Programming in Java**".
- Mrs. Kanchan Patil is awarded as "**NPTEL Discipline Star**" by NPTEL for being certified in courses of same discipline, more than 50 weeks of learning, final score in each subject  $\geq 55$ .

<p><b>GARIMA VERMA</b> STUDENT MADAN MOHAN MALAVIYA UNIVERSITY OF TECHNOLOGY</p>	<p><b>HARIHARA SANTOSH DADI</b> FACULTY ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT</p>	<p><b>IRIGI YUVA KUMAR</b> STUDENT JNTU HYDERABAD COLLEGE OF ENGINEERING, JNTU</p>	<p><b>J ANURAG NAYAK</b> EMPLOYEE TATA CONSULTANCY SERVICES LIMITED</p>	<p><b>JANANI S</b> FACULTY KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY</p>
<p>Max Weeks: 60</p> <p><b>JEEVANA V</b> STUDENT RAJALAKSHMI ENGINEERING COLLEGE</p>	<p>Max Weeks: 60</p> <p><b>JEREMY JOSH GILBERT</b> STUDENT DON BOSCO COLLEGE OF ENGINEERING</p>	<p>Max Weeks: 60</p> <p><b>K GURI RAGHAVENDRA REDDY</b> FACULTY JAYAPRAKASH NARAYAN COLLEGE OF ENGINEERING</p>	<p>Max Weeks: 60</p> <p><b>KANCHAN DILIP PATIL</b> FACULTY SANKRANTI COLLEGE OF ENGINEERING</p>	<p>Max Weeks: 60</p> <p><b>KANEGONDA RAVI CHYTHANYA</b> FACULTY SR ENGINEERING COLLEGE</p>



Dr. Madhuri Jawale felicitating Mrs. Patil along with Team IT



- Dr. Mahendra Gawali has successfully completed the NPTEL course **“Business Analytics and Data Mining Modeling”**.
- Dr. Mahendra Gawali and Dr. Devyani Jadhav has completed Online FDP on **Sensitization in Innovation & cutting Edge Technologies** organized by MSFDA, Pune from 12<sup>th</sup> to 27<sup>th</sup> September 2022 and 14<sup>th</sup> to 29<sup>th</sup> November 2022 respectively.
- Mrs. Kanchan Patil and Mrs. Megha Kurhe has completed an FDP on **Outcome based Curriculum design** organized by NITTR, Chandigarh from 5<sup>th</sup> to 9<sup>th</sup> September 2022.
- Mrs. Megha Kurhe and Mr. Prasad Mutkule have completed FDP on **Outcome based Education** organized by Sanjivani K.B.P. Polytechnic, Kopergaon on 28<sup>th</sup> & 29<sup>th</sup> November 2022.
- Dr. Madhuri Jawale and Dr. P. William have published a paper entitled, **“Energy efficient framework to implement next generation network protocol using ATM Technology”** in scopus indexed journal named measurement : sensors.
- Dr. P. William has published a paper entitled, **“Malware Threat Affecting Financial Organization Analysis Using Machine Learning Approach”** in International Journal of Information Technology and Web Engineering.
- Dr. Rameshwar Chintamani, Dr. Nikhil Patankar, Dr. Yogesh Deshmukh and Mr. Nitin Shelake published a paper entitled, **“Machine Learning Techniques For Brain Tumor Detection and Classification Using MRI”** in journal named Neuro Quntology.
- Dr. Nikhil Patankar, Dr. Yogesh Deshmukh, Dr. Rameshwar Chintamani and Mr. Nitin Shelake have presented a paper entitled, **“An Efficient System for the Prediction of House Prices using a Neural Network Algorithm”** in International Conference on Edge Computing and Applications (ICECAA2022) organized by Gyanmani College of Technology, Nammakal, Tamilnadu.
- Dr. Nikhil Patankar, Dr. Yogesh Deshmukh, Dr. Rameshwar Chintamani and Mr. Nitin Shelake have presented a paper entitled, **“An Efficient Machine Learning systems using sentinel analysis based for movie recommendation System”** in 3<sup>rd</sup> International Conference on Smart Electronics and communications

organized by Kongadu College of Technology, Trichy, Tamilnadu.

- Dr. Nikhil Patankar, Dr. Yogesh Deshmukh, Mr. Nitin Shelake have presented a paper entitled, **“An Investigation on Levaraging wireless sensor networks and radio frequency identification to develop Internet of Things application”** in International Conference on Artificial Intelligence and Data Science (ICAIDS-2022).
- Mr. Prasad Mutkule and Mrs. Megha Kurhe has presented a paper entitled, **“Face Mask Detection for COVID-19 precautionary measures using SVM Approach”** in Sardar Patel International on Industry 4.0 – Nascent Technologies and Sustainability for 'Make in India' Initiative organized by SPCE, Mumbai in association with SPIT, Mumbai, Capgemini, SAE India WS, IE (I), IIIE, FELA and technical collaboration with American Institute of Physics & IEEE, Bombay Section.

### FACULTY INTERACTION

- Dr. Madhuri Jawale worked as a **Session Chair** in the Paper Presentation Competition organized by CSI Nashik Chapter and Gokhale Education Society's R.H.Sapat College of Engineering, Management Studies and Research, Nashik.
- Dr. Mahendra Gawali has worked as a reviewer for The Journal of Supercomputing for the topic Task Allocation Scheme using Hybrid Optimization Model in Serverless Computing Model.
- Dr. Madhuri Jawale has worked as a Resource Person for one day **“Faculty Orientation Program on Cyber Security”**, of TE AI & DS 2019 course on 27<sup>th</sup> January 2023 organized by Computer Engineering Department, MET's Institute of Engineering, Bhujbal Knowledge City, Nashik.
- Dr. Yogesh Deshmukh selected as **advisory committee member** for 3<sup>rd</sup> International conference on Data Science and Data Analytics organized by Sri Aurobindo Institute of Technology.
- Mrs. Kanchan Patil has delivered an Expert Talk on **“Advanced Concepts of Object Oriented Programming”** at Dr. D. Y. Patil Institute of Technology, Pimpri on 25<sup>th</sup> November 2023.
- Mrs. Nidhi Ruparel Sachade has conducted AICTE-UGC FDP and Student Workshops on Universal Human Values in Online and Offline mode.



## ITERA EVENTS

- The first event organized by ITERA was **“Quiz Competition”** on 19<sup>th</sup> September 2022. A total of 126 students participated in the competition. From SY, Mr. Warkhade Pradip was winner and Khan Danish was runner up, from TY Mr. Shelke Sanket was winner and Ms. Rokade Laxmi was Runner up and from B. Tech Ms. Dhamale Pranali was winner and Ms. Amale Sanjana was Runner up.



- The second event organized was **“Reel Competition”**. It was organized for the SY, TY, and B.Tech students on 12<sup>th</sup> October 2022. For the competition 12 students participated for the event. Mr. Chinmay Bitne from TY was winner and Mr. Vaibhav Shete and Mr. Sanket Shelke from TY were runner up.
- “One Minute Show”** was organized specially for FY IT students on 7<sup>th</sup> November 2022. 60 students participated in the event. The event was organized to welcome FY IT students to department and college.



- “BrainCore Competition”** was organized for SY, TY, and B. Tech students on 25<sup>th</sup> November 2022. For the competition 65 students from SY, 44 students from TY and 35 students from B. Tech participated. Mr. Gaurav Agrawal was winner and Mr. Pratik Jadhav was runner up from SY IT, from TY Mr. Tushar Saraf was winner and Mr. Sachin Sadgir was runner up and from B. Tech Ms. Sanjana Amale was winner and Mr. Vishal Shelar was Runner up.



**Mr. Rohit Nikam**  
In-Charge, ITERA

## CSI EVENTS

- It gives us a great joy to announce that the CSI accredited student wing was formed in our college with total 400 students from SY, TY, BTech IT and Computer. We are hopeful that this student wing will reach new heights by organizing thoughtful events and knowledge enrichment programs. Below is the brief description of events organized and conducted in First semester of academic year 2022-23.



- The First event conducted was Awareness program on **“Cyber Security”**. Objective of the event was to improve the Technical skills of students. Total 49 students from 5th to 9th class of Sanjivani International School have attended the awareness session. It was conducted on 19<sup>th</sup> September 2022 at 2.30pm. Dr. Madhuri Jawale, Head, Department of IT and Mr. Chetan Bawankar, Assistant Professor were the resource persons for the same.



- The Second event conducted was **“Hunky Brains”**. Objective of the event was to improve Technical and programming skills of students. Total 195 students from SY, TY and Final Year IT and Computer participated in the event. It was conducted on 10<sup>th</sup> November 2022. Mr. Suyog Dighe, S.Y.IT, Mr. Ishika Narkhede, T.Y.Computer and Mr. Avinash Maindre, B.Tech Computer were the winner.
- The Third event conducted was Awareness program on **“Internet of Things”**. Objective of the event was to improve the Technical skills of students. Total 41 students from 5th to 9th class of Sanjivani International School have attended the awareness session. It was conducted on 16<sup>th</sup> December 2022 at 12.15pm. Dr. Nikhil Patankar, Assistant Professor was the resource person for the same.



**Dr. Madhuri Jawale**

CSI Student Branch Counselor

## ALUMNI SECTION

A success of any institution can be measured by the contribution the alumni make to our national life. Ultimately institutions' alumni are key to its growth. We are proud to say that our IT Department alumni are contributing in it and interacting with the students to make them aware about new technologies and helping them in their career path.

### Webinar on “ETL/Data Warehousing”

A Seminar on “ETL/Data Warehousing” was organized in association with VAAVE (Enriching Alumni Relations) on Friday, 14<sup>th</sup> October 2022. The resource person for the same was Mr. Yogesh Borude, Senior Specialist Software Engineer, Wells Fargo and our proud alumni from 2006 batch. During the event, Dr. A. G. Thakur, Director, Sanjivani COE, Kopergaon welcome Mr. Yogesh and elaborated the progress of College. Dr. Madhuri Jawale elaborated the progress and growth of the department. Mr. Yogesh Borude focused on the preparation of interview and gave the most important concept related to ETL & Data warehousing. Almost 75 students attended the event.



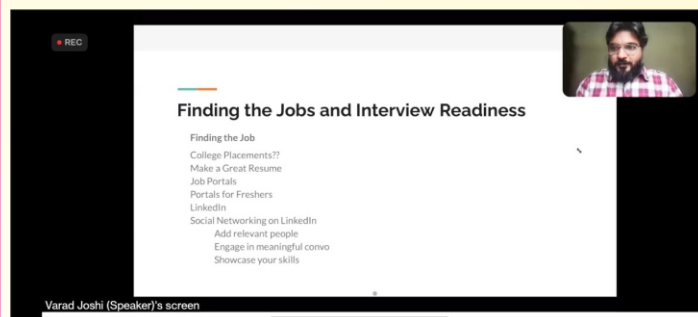




## Webinar on “Career Orientation”

A Seminar on “Career Orientation” was organized in association with VAAVE, (Enriching Alumni Relations) on Wednesday, 21<sup>st</sup> September 2022. The resource person for the same was Mr. Varad Joshi, Senior Solution Architect, HCL Technologies and alumni from 2005. Mr. Varad Joshi have focused on the finding the jobs and making students and fresh engineers ready for job. He gave various tips and tricks to be better than others. He suggested that instead of focusing on off-campus placements students should focus on college campus placements. Mr. Varad told that each and every student should be always ready with his/her resume; also he gave an idea on how to build an effective resume. He has covered many aspects related to placements as well as startups. Almost 80 students attended the event. Mr. Varad Joshi gave best difference between corporates and the startups. He has distinguished and well said that, “Big Corporates are about: 1. Structured Methods and Processes. 2. Well defined work. 3. Big Hierarchy. 4. Defined growth

path. 5. Lesser scope for experimentation. 6. Lesser responsibilities. 7. Better work life balance. 8. Lesser but on-time salary. Whereas small Startups are about: 1. Undefined and changing processes. 2. Everyone does everything. 3. Flat Hierarchy. 4. Great playground for experiments. 5. Crazy work hours. 6. Better salary but lot of uncertainty.



## STUDENT ARTICLE

### Plant Disease Detection Using Machine Learning

The good health of human rely on the kind of food they absorb. If the crop is unhealthy, it will affect human by producing different types of health problems because of poor nutrition. Thus it is only possible to achieve healthy nutrition if the crop is yield healthy. Plant diseases have a devastating effect on agricultural products. The monetary loss caused by plant diseases is estimated to be \$30–50 billion annually. Viral plant diseases in particular cause significant damage to agriculture. The exploration of a "Deep Learning" approach for agricultural uses has intensified in research and opens the door to new uses and gains performance compared to current



methods. Especially, The Deep Learning" is used to determine the extraction of characteristics in a way that synthetic and to give a clear detection on a proposed data set. This method is used to reduce the memory footprint and improve performance. In general, "CNN" is the best method for any prediction problem involving input image data and requires minimal pre-processing. It is structured to classify large-scale images.

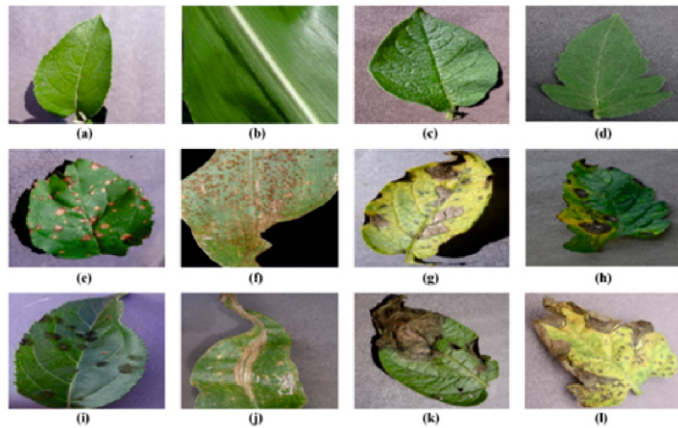


Fig. 5 Sample images of healthy and diseased leaves from the PlantVillage dataset for disease classification. a Apple healthy; b corn healthy; c potato healthy; d tomato healthy; e apple black rot; f corn common rust; g potato early blight; h tomato early blight; i apple scab; j corn (maize) northern leaf blight; k potato late blight; l tomato Septoria leaf spot

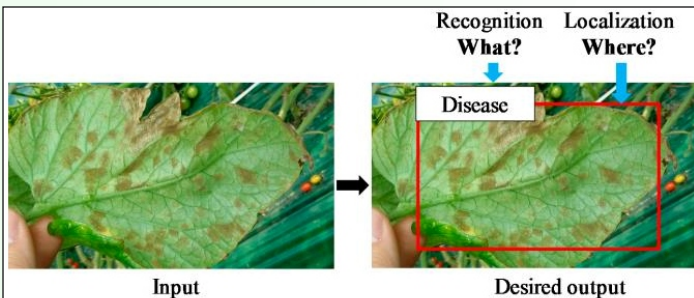
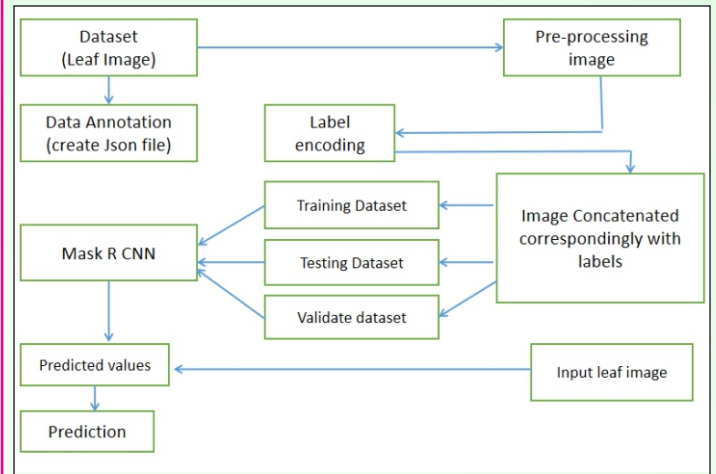


Fig. 4. Annotated Image

### Objectives :

- To develop a software prototype for plant disease detection.
- To predict the disease type using image processing on input leaf image.
- To predict the risk level of the infection by analyzing the leaf symptoms.
- To reduce the production loss caused to the farmers by early detection.
- To give prevention measure suggested by agriculture expert.

### System Architecture :



The System Architecture consists following components :

- **Leaf Dataset :** The Dataset used is Plant village leaf dataset which include total 54303 healthy and unhealthy leaf images divided into 38 categories by species and disease. Here we have considered 1200 healthy and unhealthy leaf images of 12 different categories.
- **Data Annotation :** Tool used is Image Annotation. It is a process of labeling image in which objects of interest in images are annotated with appended metadata so that it can be recognized by machine through computer vision. Software used to perform Image Annotation is VGG Image Annotation 1.0.1 and labeling technique used is polygon annotation.
- **Algorithm used is Mask-RCNN :** Mask-RCNN performs four main operations :
  1. **Backbone of model :** The backbone model of In Mask-RCNN is ResNet 101 architecture. It is used to extract the features from the images. The extracted features are given as input to the next layer.
  2. **Region Proposal Network (RPN) :** The features obtained by ResNet are given as input to RPN. This will predict whether the object is present in region or not.
  3. **Region of Interest (ROI) :** To reduce the computation time ROI is calculated. So for the entire predicted regions given by RPN, computes the Intersection over Union (IOU) with the ground truth boxes.

$$IOU = \frac{\text{Area of the Intersection}}{\text{Area of the Union}}$$



If IOUs of each computed region is greater than or equal to 0.5 then it is considered as region of interest otherwise the rest are neglected.

4. **Segmentation Mask** : As we got ROI found on IOU esteems. This will give us the Segmentation Mask for each region which contains an object. It returns a mask of 28\*28 for each region which is then scaled up in inference.

#### Advantages :

- The leaf disease detection can be used to identify the type of disease by simply using the single leaf image of plant.
- It's difficult to identify the type of the disease manually so a deep learning approach can be used to predict the disease by uploading leaf image on website.
- The use of deep learning in leaf disease detection is faster and efficient method.
- The system is fast, simple and easy to program.

#### Application :

- The System can be used in Bio-Farms to identify the disease and find the prevention measures on it.
- The plant leaf disease detection is also used in bio-pesticides industry to develop the pesticides that will be used as prevention measures.
- The Farmer can also able to reduce their total loss by taking prevention measures before time.

- Mr. Aher Siddharth Bhausaheb,

Mr. Devhare Akash Bhagwan,

Mr. Dhage Prashant Shivnath,

Mr. Khalekar Shreyas Dipak

- Guided by : Mr. Rajendra Kankrale

### Program Educational Objectives (PEOs) :

- **PEO 1** : Graduates of IT program should possess knowledge of fundamental concepts in mathematics, science, engineering and technology as well as skills in the field of Information Technology for providing solution to complex engineering problem of any domain by analyzing, designing and implementing.
- **PEO 2** : Graduates of IT program should possess better communication, presentation, time management and teamwork skills leading to responsible and competent research, entrepreneurship and professionals, will be able to address challenges in the field of Information Technology at global level.
- **PEO 3** : Graduates of IT program should have commitment to societal contributions through communities and life-long learning.

### Program Specific Outcomes (PSOs):

- **PSO1** : Attain the ability to provide software solutions by applying knowledge of Data Structures & Algorithms, Databases, Web Technology, System Software, Soft Computing and Cloud Computing.
- **PSO2** : Apply the knowledge of Computer Hardware & Networking, Cyber Security, Artificial Intelligence and Internet of Things to effectively integrate IT based solutions.
- **PSO3** : Apply the knowledge of best practices and standards of Software Engineering for Project Management.

### EDITORIAL BOARD

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