

Compendium

The Newsletter

Vol. 1 Issue. 1



Back With A Renewed Vigour

Continuing the legacy of the first official newsletter of the Department of Computer Engineering, 'The e-COMPENDIUM', we seek to add yet another few pages in your college memories. The pages written in the achievements of the students and teachers our department. The pages in which we celebrate feats of our department. A hall of fame...

HOD Address



Prof. Dr. Sandip Shinde
HoD, Dept. of Computer Engineering

I am delighted to introduce the official newsletter of the Department of Computer Engineering, VIT, a platform which will highlight the numerous achievements of the our students and faculties.

The purpose of the newsletter is not only to highlight the feats of the Department but also inspire others to strive harder in all aspects of engineering, steering them towards holistic development.

I congratulate the entire team involved in this initiative and wish them all the best for future editions of the newsletter

Dept. of Computer Engineering



Vision

To be a leader in the world of computing education practising creativity and innovation.



Mission

- To ensure students' employability by developing aptitude, computing, soft, and entrepreneurial skills.
- To enhance academic excellence through effective curriculum, blended learning and comprehensive assessment with active participation of industry.
- To cultivate research culture resulting in knowledge-base, quality publications, innovative products and patents.
- To develop ethical consciousness among students for social and professional maturity to become responsible citizens.

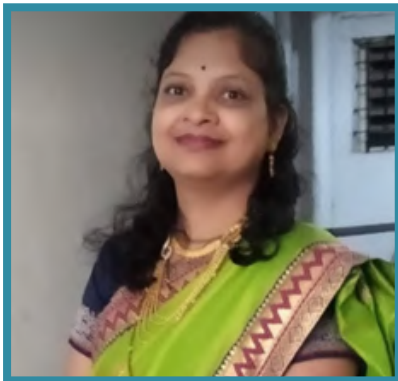
Faculty Advisors



Mrs. Swati Jadhav
Asst. Prof.
VIT

With great pleasure, we are releasing the official newsletter for the Department of Computer Science at VIT, Pune. Bringing the students and teachers together on a common platform to share and showcase their ideas and talent. To all the students who have been involved in this endeavour, we wish them the best in their careers ahead. We wish that this "establishes" to be a flint to ignite the enthusiasm and excite the minds of the students and inspire passion among the members of the faculty of computer engineering.

This platform was established by students for students. Every student and faculty member will gain knowledge about the department's good work, endeavours, and achievements. Along with this, we are launching a social media handle to update all of our stakeholders, including industries, alumni, parents, etc., about the great work being done by the departments.



Mrs. Sangita Lade
Asst. Prof.
VIT

With the help of this platform, we aim to cover all facets of the departments, including students, faculty research, Scopus and web science publications, patents, faculty serving as resource persons for different faculty development programmes, students and faculty who attended workshops, FDPs and certification data, student and faculty achievements, and awards received, as well as technical articles written by faculty and students.

There is a designated area for the entrepreneur corner, student of the year corner, industry partner corner, and alumni corner to address the students.

With this thought, we would like to conclude this address.

"Come together, learn together, share together, progress together, and fly together until the sky is below you".

Editors' Note



Aditya Warghane
Third Year



Anoushka Mudkhedkar
Third Year

The birth of this newsletter has quite a story behind it. We had noticed in the past year that there was some space between we, students and the department. Even after attending college for almost two years (we will give one year to Covid-19), we don't know if the person in front of us is in our class or the person is the faculty of the department. We are emphasizing the missing of that point of contact, through which we would be acquainted with the people we see everyday on the 3rd (and many a times, 4th) floor. Who that person is? What are his/her specialties? Talents, achievements.... The list goes on. In the similar way, we noticed that most of us don't know our faculties, their specializations, interests.

Here's where Compendium: The Newsletter comes into the picture. A newsletter which will deliver all the achievements, publications, specialities of the students and faculties alike into the hands of its readers. These will not only be the famed papers of the department but also that point of contact we mentioned earlier. You can thus, find people interested in ideas same as you, your next hackathon group or team-up with faculties with the specializations in which you want help.

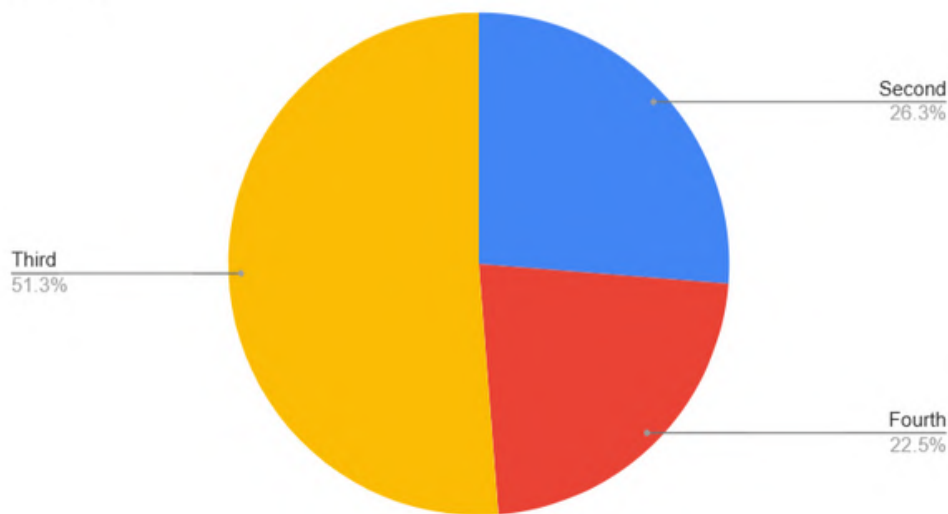
But friends, this endeavor of ours is limited only by one thing, your participation. You are an integral part of our team. These are your feats we highlight. We urge you to submit few details of your achievements, be it technical or non-technical to us, your patents, publications, sports, social activities. Let the world see our spark turn into an inferno.

With this first edition, we have laid the foundation over which the subsequent editions will be based. We as the chief editors will do our best to keep it as engrossing as possible. We also call to you for any innovations or suggestions that you would like to be seen implemented in next editions. Afterall Compendium: The Newsletter is of the students, for the students and by the students!

Publications

Throughout the semester, our faculties urge us to write papers for journals/conferences. The fruits of the discipline are reaped in the form of publications!

Count



Percentage of papers published in each year.

1. Comparison of Performance of Machine Learning Algorithms for Cervical Cancer Classification

Hamza Karani, Ashish Gangurde, Gauri Dhumal, Waidehi Gautam, Samiksha Hiran and Abha Marathe, "Comparison of Performance of Machine Learning Algorithms for Cervical Cancer Classification," 2022 Second International Conference on Advances in Electrical, Computing, Communication and Sustainable Technologies (ICAECT), Bhilai, India, 2022, pp. 1-7, doi: 10.1109/ICAECT54875.2022.9807849.

Abstract-

Cervical cancer, which is the fourth leading cause of mortality among women, displays no symptoms in its early stages. Cervical cancer is currently diagnosed using only a few approaches using Machine Learning techniques. Certain approaches such as PAP Test, HPV Test, Colposcopy and Biopsy require medical staff intervention and cancer is not detected until a certain stage is reached. These procedures are also too costly in developing countries. Detection of Cervical Cancer using Machine Learning and Deep Learning techniques come into play to solve this issue. A few to name are: CervDetect [1]

Publication: 2022 Second International Conference on Advances in Electrical, Computing, Communication and Sustainable Technologies (ICAECT)

Publications

2. Online Hate Classifier For Social Media Platform

H. Kulkarni, P. Kulkarni, V. Khandate, C. Lohkare and M. Dhore, "Online Hate Classifier For Social Media Platform," 2022 6th International Conference On Computing, Communication, Control And Automation (ICCUBEA, Pune, India, 2022, pp. 1-6, doi: 10.1109/ICCUBEA54992.2022.10010839.

Abstract-

The surge in social media platforms accredits users to reveal their opinions widely. With this boost in social media usage, the impartation between users becomes divergent because of diversity in educational backgrounds, culture, country, etc. Its consequences may take the form of clashes among the people, contaminating online environments. This content that inculcates hate among the people is termed Hate Speech. Such speech comprises various aggressive, violent, offensive language to target a specific crowd sharing common ideas, philosophy, region, religion, culture, etc. To address this concern, we developed an application that detects whether a given content (text, image) contains hate messages or not. For that, we have used a dataset that contained a total of 24783 comments from Twitter platform with 77.43% of the comments tagged as offensive language and 17% of the comments tagged as hate language. We then experimented with various models like logistic regression, random forest classifier, etc. and we got the best f1 score of 0.97 for the KNN (K-Nearest Neighbour) algorithm, hence we have deployed the final outcome with the KNN algorithm.

Publication: 2022 6th International Conference On Computing, Communication, Control And Automation (ICCUBEA)

3. Abstractive Text Summarization of Hindi Corpus Using Transformer Encoder-Decoder Model

Rashi Bhansali, Anushka Bhawe, Gauri Bharat, Vedant Mahajan & Manikrao Laxmanrao Dhore, "Abstractive Text Summarization of Hindi Corpus Using Transformer Encoder-Decoder Model", Part of the Smart Innovation, Systems and Technologies book series (SIST, volume 333)

Abstract-

Text Summarization based on Abstraction is the task of generating a concise summary that captures the principal ideas of the source text. It potentially contains new phrases that do not appear in the original text. Although it is widely studied for languages like English and French, owing to the scarcity of data on regional vernacular languages like Hindi, the research in this area is still in the primitive stages. We propose a novel approach for building an Abstractive Text Summarizer for Hindi corpus using the Transformer encoder-decoder architecture. Firstly, efficient pre-trained word representations are generated using Facebook's fastText model. Next, the Transformer model is employed to extract contextual dependencies and yield better semantic representations for a morphologically rich language like Hindi, engendering an abstractive summary. On performing an experimental evaluation on the Hindi news dataset to generate news article headlines, we achieve a ROUGE-1 precision and recall score of 0.682 and 0.598, respectively, which outperforms the state-of-the-art techniques.

Publication: Part of the Smart Innovation, Systems and Technologies book series (SIST, volume 333)

Sr no	Authors	Journal /Conference	Project title
1.	Rajesh Raikwar, Gaurav Patil, Kaustubh Patil	IRJET	Fuel Volume Indicator
2.	Dr. Ganesh Bhutkar, Gaurav Patil, Akash Patil, Shashank Pathmudi	IRJET	Plant Monitoring System
3.	Prof. Rakhi Bharadwaj, Rohan Katkar, Rushikesh Jadhav, Swaraj Kalbande, Rohan Katta	IRJET	Currency Recognition using Machine Learning
4.	Dr. S.T Patil, Yogeshwar Deshpande	IJSRT	Airline Reservation System
5.	Dr. S.T Patil, Bhagyashri Bagul, Akshay Matre, Dhanashree Bhagat, Samiksha Dhumal	IRJET	Cloud Based Automation Software for Pharma Industry
6.	Dr. Vijay Gaikwad, Dr. Premanand Ghadekar, Dr. Rajesh Jalnekar, Anushka Hedao	Proceedings of National Conference on 'Recent Trends in Academic Research'	Choosing the Best Metrics for Quantifying the Quality of the Model in Skewed Binary Classification Problems
7.	Prof. Sachin Sawant, Khushi Bhartiya, Ayush Kohade, Neeraja Khire, Akshay Khubchandani, Pavankumar Khot	International Journal of Advanced Research, Ideas and Innovations in Technology	Local Navigation Application
8.	Dr. M.L Dhore, Aarushi Bhate, Antima Modak, Anmol Warikoo, Aryan Aher	Journal of Women's Health and Development	Online Forum For Unwanted Pregnancy Related Queries
9.	Dr. M.L Dhore, Harsh Kulkarni, Prathamesh Kulkarni, Vishal Khandate, Chetan Lohkare	ICCUBEA-2022	Online Hate Classifier For Social Media Platform
10.	Dr. S. T Patil, Pritesh Pawar, Omkar Prabhune, Prabhav Pandya, Pranav Pandya	International Journal of Research in Electronics and Computer Engineering	Predicting the Movement of "Meme" Stocks

Sr no	Authors	Journal /Conference	Project title
11.	Dr. M.L Dhore, Aditya Dhotarkar, Kshitij Dhone, Karan Dorge, Samruddhi Deshmukh, Vipul Dhopte	escioit.org	QuizopediaPlus: Online examination system for blind students using scalable digital platform
12.	Vijay Gaikwad, Shabbir Tankiwala, Anushka Shinde, Shaikh Zaid Ahmed, Prathamesh Shenavi, Girish Sarwade	IRJET	Real Estate Price Prediction
13.	Dr. M.L Dhore, Yashwardhan Bhangdia, Rashi Bhansali, Ninad Chaudhari, Dimple Chandnani	ICIRCA 2021	Speech Emotion Recognition and Sentiment Analysis based Therapist Bot
14.	Prof Milind Patwardhan, Nikhil Sontakke, Shivansh Rastogi, Shriraj Sonawane, Nishant Tekale, Aayush Wagh	International Research Journal Of Modernization In Engineering Technology And Science	The Office - a skill finder website
15.	Prof. Rahul Diwate, Shreyansh Shital Patil	2022 International Conference on Emerging Smart Computing and Informatics (ESCI)	Tri-plant leaf disease for Bell pepper, Tomato and Potato Classification Using CNN
16.	Prof. Rakhi Bharadwaj, Deven Bhadane, Ranjana Burange, Aniruddha Bargaje and Shubham Bodake	International Journal of Advanced Research, Ideas and Innovation	WeRescue: An initiative to prevent another epidemic
17.	Jyoti Kanjalkar, Aditya Laxman Patil Mayuresh Aher, Shruti Adhau, Tejaswini Andhare	Mukt Shabd Journal(UGC)	Vehicle Booking System
18.	Prof.Rakhi Bharadwaj, Aditya Thombre, Sushil Suri, Yash Gaikwad, Umesh Patekar	ICISC CONFERENCE	Traffic surveillance and vehicle detection
19.	Mrs. S.N.Uke, Anikka Pandey, Shreya Ambekar, Somesh Alkanthi, Amey Joshi	NeuroQuantology	SHE-ILD: Women Safety and Awareness Application
20.	Prof Abha Marathe, Hamza Karani, Ashish Gangurde, Waidehi Gautam, Gauri Dhumal, Samiksha Hiran	ICAECT 2022	“Comparison of Machine Learning Algorithms for Cervical Cancer Classification”

Sr no	Authors	Journal /Conference	Project title
21.	Jyoti Kanjalkar, Tanmay Deshmukh Pratik Dhamal, Jay Deshmukh	International Journal on Recent and Innovation Trends in Computing and Communication	A Novel System for AYUSH Healthcare Services using Classification and Regression
22.	Swati Jadhav, Mitrajeet Golsangi Vivek Ghuge, Divija Godse, Pravin Harne	GC-RDCT 22	An SDL Case Study on : Diet Recommendation System based on User Activities
23.	Uttkarsh Patel Atharv Natu	IJRASET	A Sustainable Business Model to Boost Entrepreneurship at Rural Level
24.	Vijay Gaikwad, Somanshu bhat Siddhant Nawale, Vaishnav Ioya, Siddhesh Wani, Varun Gujarathi	ICRAET	Air and Sound Pollution Monitoring System
25.	Dr. Prof. S.T Patil, Uttkarsh Patel Atharv Natu, Saniya Inamadar, Khushi Nikumbh	International Journal of Enhanced Research in Management & Computer Applications	Altfolio
26.	Deepali Deshpande, Somanshu Bhat Siddhant Nawale, Vaishnav Ioya, Siddhesh Wani, Varun Gujarathi	ASCIS	Automatic Vehicle Monitoring System
27.	Kiran More, Anikka Pandey Gargi Andhale, Anirudha Sonawane, Tejaswini Andhare, Akshara Amrutkar	IJRASET	Automatic Water Level Indicator and Controller
28.	Prof. M. M. Kulkarni, Aditya Pachore, Tanish Modase, Tushar Muley, Komlesh Patil, Chetan Patil	International journal of Scientific Research in Engineering & Management	Car Parking slot detection using CNN
29.	Prof. Swati Jadhav, Atharv Natu Atharv Natu, Uttkarsh Patel, Bhavin Patil, Sneha Palwe	ICICTVMN	Cryptography using GPGPU
30.	Prof. Swati Jadhav, Shravani Nalbalwar Arjun Thakur, Shubham Shah, Sankalp Chordia	International Conference on Innovative Computing and Communication	Detection and Mitigation of ARP Spoofing Attack

Sr no	Authors	Journal /Conference	Project title
31.	Prof. Abha Marathe, Saurabh Jadhav	NCWCCI'22	Diabetes Detection Web Application
32.	Prof. Dr. S. T. Patil, Aditya Pachore Rahul More, Dhiraj Kurhade, Tushar Muley	High Technology Letters(HTL)	Early Sepsis Detection in ICU
33.	Prof. Sandip Shinde, Siddhesh Karande Navnath Kate, Sohail Kasmani, Bhakti Karangale	Gradiva Review Journal	Efficient Information Retrieval from Unstructured Database using Advanced Algorithm
34.	Swati Jadhav, Rohit Jadhav, Sushil Kandhare, Omkar Karpe, Ganesh Karode	IJERASET	Food donation application
35.	Prof. Manisha More, Himani Malani, Nishad Mahore, Yash Mali, Rushikesh Mali	International Research Journal of Engineering and Technology	HAND GESTURE CONTROLLED MOUSE
36.	Prof. Vijay Gaikwad, Tanmay Shah Atharva Sawleshwarkar, Mohiddin Shikalgar, Farhan Shaikh, Yash Shejwal	Telematique (ISSN : 1856-4194)	House Price Prediction using Machine Learning Algorithms
37.	Prof. Rakhi Bharadwaj, Rohan Gangadas Katta Swaraj Kalbande, Kalpesh Jadhav, Rushikesh Jadhav	International Conference on Intelligent Cyber Physical Systems and Internet of Things	Human Physical Activities Based Calorie Burn Calculator Using LSTM
38.	Pushkar Joglekar, Atharv Kale Omkar Kalange Rushikesh kahat Trupti Kale	IRJET	Implementation of Various Machine Learning Algorithms for Traffic Sign Detection and Recognition
39.	Prof. Mukund Kulkarni, Prathmesh Nagpure Vedant Parvekar, Swapnil Mhoplekar, Gautam Mudawadkar, Shrutika Nandurkar, Niharika Hande	IJRASET	IOT Based Health Monitoring System
40.	Prof. Abha Marathe, Atharv Natu, Uttkarsh Patel, Tanaya Naik, Sneha Palwe, Khushi Nikumbh	International Multidisciplinary Conference on Recent Innovations in Science, Engineering, Management and Humanities	IoT Based Smart Plant Watering System

Sr no	Authors	Journal /Conference	Project title
41.	Prof. Ashutosh Marathe, Subodh Motbhare Amey Dhuri, Himanshu Bhatiya, Shreyash Kapse, Prajwal Achwale, Subodh Motbhare	International Conference on Futuristic Technologies (INCOFT)	IOT Smart Stand for Smart Phones
42.	Prof. Ashutosh Marathe, Rutuja Jotrao, Pratik Bhise, Pratik Kadam, Prathamesh Shinde, Shruti Devshatwar, Rajkunwar Singh	IJSREM	IoT solution for automobiles
43.	Prof. Rakhi Bharadwaj, Anoushka Mudkhedkar, Fatima Khatib, Amogh Dixit, Ayush Ingle	Information and Communication Technology for Competitive Strategies	Mazoor Katta' A Mobile Application For Daily Wage Labor Management
44.	Prof. Sachin Sawant , Swaraj Puri Revant Pund , Nikita Punde , Vithika Pungaliya , Prateek Puranik	IEEE Signal Processing	Medical Record for Soldiers
45.	Prof Saraswati Patil, Hamza Karani, Juwairia Sayyed, Honraopatil Adityaraj , Tejaswini Katala	UGC Mukht Shabd Journal, Volume XI , ISSUE XII, DECEMBER 2022	Metafrasi : An Android Application for converting Speech to Text in Multiple Regional Languages
46.	Manisha Dhage, Mitrajeet Golsangi, Divija Godse, Pravin Harne, Vivek Ghuge	ICICV	Patrolling Robot with Facial Detection
47.	Prof. Rakhi Bharadwaj, Harshal Amol Sonawane Manasi Patil, Shashank Patil, Vedant Jadhav	International Conference on Inventive Systems and Control	Perceptors : An A.I. enabled smart glasses for blind
48.	S T. Patil, Rutika Masane, Sakshi Ozarde, Omkar karpe, Ganesh karode	Gradiva review journal (Scopus)	Personal Diet Recommendation System using Machine learning
49.	Abha Marathe, Rushikesh Kahat Omkar Kalange, Tejaswini Katala, Atharv Kale, Juwairia Sayyed	International Journal of Advances in Engineering and Management (IJAEM)	Prediction of Diabetes using R
50.	Vijay Gaikwad, Sanjyot Kotgire Shravan Raina, Saksham Sharma, Rutuja Shinde, Aditya Sabde	YMER	Resale car price prediction

Sr no	Authors	Journal /Conference	Project title
51.	Prof. Deepali Deshpande, Rishikesh Unawane Aditya Taware, Aryaman Todkar, Roopal Tatiwar, Shubhankar Munshi	2023 International Conference for Advancement in Technology (ICONAT)	Research Article Summarizer
52.	Prof.Varsha R. Dange, Tanishk M. Patil Omkar Patil, Pratik Patil, Sae Patil, Shweta Patil, Tanmay Pol	International Conference on Microelectronics, Computing & Communication Systems(MCCS-2022)	Smart Agriculture System based on Use Cases of IoT
53.	Nikita Khawase, Chinmayi Londhe Chaitanya Landge ,Kshitij Shembalkar, Ketan Aggarwal, Rutvik Manchekar	International Research Journal of Engineering and Technology	Smart Dustbin using NodeMCU
54.	Prof. Vijay Gaikwad, Shravani Nalbalwar Rishab Khandelwal, Rajat Harne, Sankalp Chordia, Shritej Joshi	International Conference on Recent Advancements in Engineering and Technology	Smart Gear for Blind
55.	Dr Vijay Gaikwad, Sahil Bagati, Sajjal Mehra,Samay Sonje, Rushikesh Salunkhe, Sammed Patil	YMER	SOUND POLLUTION MONITORING SYSTEM
56.	Prof. Vashali Rajput, Shivam Jadhav,Vedanti Jadhav, Yogesh Jadhav, Deepak Jadhavar, Shrinivas Jadhav	YMER Scopus	Alcohol Sensing Engine Lock System
57.	Amol Bhosale, Siddhant Bokil, Gaurav Bomble, Savani Bondre, Mahesh Boke, Vishal Bolke	YMER	ATM System based on Fingerprint Recognition
58.	Prof. Vijay Gaikwad, Prajwal Holkaar, Pranav Hole, Shantanu Hippargekar, Atharva Hire, Haider Hirkani	Inernational journal of creative research thoughts ISSN: 2320 - 2882	Automatic fire Extinguisher
59.	Anita Joshi, Arwa Bhojawala, Manish Arote, Arnav Dhobale, Arpit Mahalle, Arman Rajesh Arya Abhir	International Journal of Scientific Research in Engineering and Management	Developing a plant health monitoring, management and autonomous watering system using IoT
60.	Hrutuja Mirgal, Akash Hursad, Jatin Ijmulwar, Mitesh Ikar, Inderdeep Bassan	ICFMRS - 2022	Door Lock System Using Password

Sr no	Authors	Journal/Conference	Project title
61.	Nilesh Navghare, Manas Avachat, Ritesh Avhad, Anish Awalgaoonkar, Ayush Biyani, Avish Agarwal	International Journal of research and analytical reviews	Driver Drowsiness Detection
62.	Milind Patwardhan, Akshata Gile, Anshuman Giramkar, Giriraj Bedke, Parth Gite, Gayatri Gite	IJNRD	Food Spoilage Detection System
63.	Dr. Vijay Gaikwad , Shubham Shah, Arjun Thakur, Shruti Singh, Akash Sinha, Vishal Sirvi, Shreyansh Srivastava	International Conference on Recent Advances in Engineering and Technology	IFTTT based Smart Home Security System
64.	Saleha Saudagar, Anshuman Giramkar, Shreyas Godse, Snehal Gupta, Sangram Gunjal, Gyaneshwari Patil	2nd International Conference for Advancement in Technology (ICONAT) 2023	Image Encryption based on Advanced Encryption Standard
65.	Prof. Vijay Gaikwad, Harsh Karadbhaje, Harshvardhan Kendre, Neha Kamtalwar, Ojas ketkar, Mandar Karmarkar	Internatiional conference on data communication and Internet of things	IoT based automatic weather station
66.	Hrutuja Mrigal, Sanjali Kale, Sushant Jadhao, Himanshu Khare, Jagdeep Singh	IEEE ESCI- 2023	IOT Based Bio Shed for Agricultural Purpose
67.	Prajakta Dandavate, Yash Deshmukh, Atharva Deshpande, Chirag Deshpande, Dipti Deshpande, Atharva Deshpande, Amogh Deshpande.	Neuroquantology	Medichart- A Medicine Inventory Application

Sr no	Authors	Journal/Conference	Project title
68	Rahul Bembade, Anish Bonde, Anish Joshi, Ankush Kuranjekar, Vaishnavi Anpat, Maaz Ansari, Anannay Singh	International Journal Of Creative Reasearch Thoughts	Smart Home Automation Using Arduino
69	Vaishali Rajput Maam, Rani Jivtode, Shardul, Pratik , Jenil, Jinay	HTL	Smart Sight for visually impaired people
70	Dr. Amol Ashok Bhosle, Vaibhavi Rajaram Bhosale Shourya Bhosale, Aditya Bhosale, Rutuja Bhople, Ramesh Bhopale	2023 IEEE 3rd International Conference on Technology, Engineering, Management for Societal impact using Marketing, Entrepreneurship and Talent (TEMSMET)	The "Cryptness" Website : Encryption And Data Security Practical Approach
71	Milind Patwardhan, Shrinivas Hatyalikar Harshita Bhagat, Prathamesh Hawale, Sankalp Hatewar, Himanshu Khare, Harshvardhan Sharma	INTERNATIONAL JOURNAL OF NOVEL RESEARCH AND DEVELOPMENT	Vigilant - A Fire Alerting System
72	Yogita Narule, Anurag Khandare, Prajwal Khambad, Sanket Khade, Samyak Khadse, Abhishek Khairnar	ICOTET	Weather and News Display Analysis and Prediction
73	Saleha Saudagar, Haider Hirkani, Isha Raghvani, Indereep Singh Bassan, Pranav Hole	2023 IDCIoT	ML-based Java UI for Residence Predictor
74	Prof. Anita Joshi, Anshu Maheshkar, Ansari Zayd, Anubhav Shirke, Anuj Sasane, Anuj Harad	International Journal of Scientific Research in Engineering and Management (JSREM)	SIMULATION OF MICROGRID (INTERCONNECTION OF RENEWABLE ENERGY SOURCES)
75	Harshawardhan Khare, Hrutuja Pandurang Mirgal Akash Hursad, Jatin Ijmulwar, Mitesh Ikar, Inderdeep Bassan	International Journal For Researc In Applied Science & Engineering technology	Smart Bin For Waste Management

Social Activities

As a part of General Proficiency (GP2), students have participated in various activities conducted by the SWD, which not only help the society, but also they volunteered to gain many skills!

As a part of their holistic socio-economic development, it is of great importance for students to know the problems of the society and try to find solutions for them. Thus, making them Socially Responsible Citizen of India.

We celebrate the students who took part in various such activities and urge each and everyone to volunteer for such initiatives!

Aatmabodh

In this digital age, having knowledge of digital technology has become a necessity. However, for some elder people, understanding technology can be challenging. To bridge this gap and help elders learn digital technology, a group of students started an initiative called "Online Aatmabodh," which was a social activity aimed at teaching elder people the basics of digital technology. The students started the initiative by identifying the basic necessary apps such as Google Pay, Facebook, Google Maps, and other essential apps that elders would require in their daily lives and then conducted online sessions through video conferencing to teach the elders how to use these apps and navigate the digital world. Who better than computer department students for such a great initiative?

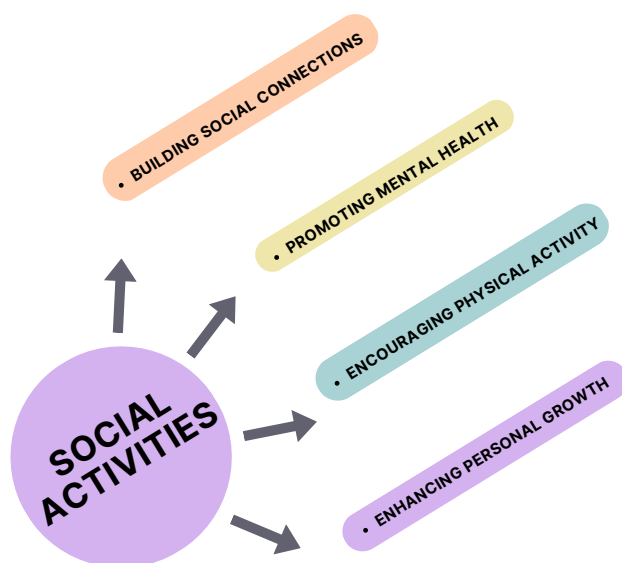
Blood-D

Blood donation is a crucial aspect of any society as it saves countless lives every year. To increase awareness about blood donation and to encourage more people to donate blood, a social activity was organized. The primary goal of this activity was to increase the number of donors and blood availability in the society.

During this activity, the blood was carefully curated and then handed over to a reputed blood bank. This social activity was a great success as it helped increase awareness about the importance of blood donation in the society. Many students of the department participated in this noble cause

Utkarsh

Utkarsh is an initiative that aims to provide a better future for underprivileged children by inculcating the qualities and skills required to compete in the current world. In this activity, volunteers record small video sessions on various topics such as science and technology, personality development, digital learning, and some DIY science projects related to 1st to 8th standard students. The Utkarsh initiative focuses on the overall development of children to enhance their future. Students also volunteered for this fun and important activity





Student Achievements

Sr no.	Name of Student	Name of Competition	Rank	Level	Prize Won
1.	Manali Kushabhau Teke, Sarvesh Patil, Tanvi Wakade, Arshad Patel, Ansh Gaikwad, Archit Jain	Smart India Hackathon 2022	First	National	1,00,000 INR
2.	Maruti Patil, Pavankumar Bhadane, Mandar Patil, Siddhant Pawar	Binance Ideathon	First	National	50,000 INR
3.	Avinash Vijayvargiya	Google Summer Of Code 2022	Open Source Contributor	International	2,35,897 INR
4.	Omkar Prabhune, Atharva Rajadhyaksha	Aadhaar Hackathon 2021	Second	National	200,000 INR
5.	Manali Teke, Sarvesh Patil, Tanvi Wakade, Arshad Patel, Ansh Gaikwad, Archit Jain	Smart India Hackathon 2022	First	National	1,00,000 INR

Student Achievements

Sr no.	Name of Student	Name of Competition	Rank	Level	Prize Won
6.	Sarvesh Patil, Tanvi Wakade, Arshad Patel, Ansh Gaikwad, Archit Jain	Smart India Hackathon 2022	First	National	1,00,000 INR
7.	Gayatri Munde, Amanda Walsh, Rachel Curwen, Kai Xuan Chin	The GoldenHack 3.0	Second Position and People's Choice Award	International	1,00,000 INR
8.	Dhruv Thakkar, Prasanna Gebise	e-Yantra Robotics competition IIT Bombay	Second Runner Up (AIR 3)	International	-
9.	Chaitanya Landge, Omkar Jahagirdar, Neha Raut, Chinmayi londhe	Webathon	First	Regional	1,00,000

MARATHA VIDYA PRASARAK SAMAJ'S
KARMAVEER ADV. BABURAO GANPATRAO THAKARE
COLLEGE OF ENGINEERING
Department of Computer Engineering

ACES

Certificate of Participation
 This is to Certify that

Mr. / Ms. Devanshu Dalal of Vishwakarma Institute of Technology
 has secured **First position** in National level event **MVPS's KBTCOE "Python Whiz 2021"**
 organized by Department of Computer Engineering (ACES), KBTCOE, Nashik on 7th Dec, 2021.

Ms. R.R. Shevale
Event Coordinator

Dr. V.S. Tidke
Head of Department

Prof. N.B. Desale
Vice-Principal

Dr. S.R. Devane
Principal

Marathwada Mitra Mandal's
College Of Engineering, Pune
 Accredited by NAAC with 'A' grade | Best College Award by SPPU

Department of Information Technology

DEXTERITY 2K22

CERTIFICATE OF APPRECIATION

This is to certify that Mr./Ms. RIYA JAGTAP has
 secured **1st/2nd/3rd** rank/participated in Project Presentation Competition conducted on 14th
 March, 2022 at MMCOE, Pune organized by Department of IT, MMCOE.

Dr. Rupali Chopade
Faculty Coordinator

Dr. V. S. Bidve
HOD, IT Department

Dr. Vijay N. Gohokar
Principal, MMCOE

UNSCRIPT

CERTIFICATE
OF APPRECIATION

THIS IS TO CERTIFY THAT

Saharsh Samir

HAS SECURED **1ST PLACE** IN
WEB DOMAIN OF UNSCRIPT ROOKIES HACKATHON 2022
 ORGANISED BY FR CONCEICAO RODRIGUES COLLEGE OF ENGINEERING ON
 22ND-23RD JANUARY 2022

Certificate id:31

This is an E-Certificate,
 Signature not required

zuno
 formerly foundit

foundit
 FORMERLY MONSTER

Certificate of Excellence

This certificate is proudly presented to

Pranav Jayant Joshi

for the exceptional performance and becoming a **Gold Winner** in
The Zuno Fellowship Program conducted on **27 August 2022**.

Sekhar Garisa
 CEO, foundit - formerly Monster (APAC & ME)

unacademy SUGAR Canva PLUSH YOGA

GOLD WINNER

Google Developer Student Clubs
 Indian Institute of Information Technology, Kalyani

WINTER OF CODE

This is to certify that,
Pavan Bhadane
 has successfully completed his journey as an open source contributor in the Winter of Code 2.0 organized by GDSC IIIT Kalyani and secured a position in the top 20. He has made significant contributions to his organization Dezenix.

Dezenix

Akshita Dixit
 GDSC Lead

CERTIFICATE OF ACHIEVEMENT

This certificate is awarded in recognition of securing 2nd runner up position at the Intercollegiate Hackathon-2022 to

Anushka Medhalkar

Mehul Desai
 Country Head | VP - Eng & Ops

IAS Integral

BINANCE

CERTIFICATE OF EXCELLENCE

This is to certify that

Maruti Patil

from Vishwakarma Institute of Technology, Pune has won **FIRST PRIZE** in
 Binance Ideathon - "Blockchain for Good" on 7th August 2022, Hosted by i4C and Binance

#BlockchainforGood

Deakin Dancy
 Head Innovation i4C

BINANCE

Ideathon

Winner for
 Create A Decentralized EV charging Infrastructure

Team Name - Airavat
College Name - Vishwakarma Institute of Technology, Pune

Powered by
 i4C

SPICON 2022

SEKA, AICTE, CSR, IITB Mumbai Chapter, Terebin and Apes Subscription, Sponsored
Sardar Patel International Conference
 on
 "Industry 4.0 - Nascent Technologies and Sustainability for 'Make in India' Initiative"

CERTIFICATE OF ACHIEVEMENT

PRESENTED TO:

Paper Code: 9893, Title of paper: "Horse Race Prediction"

Authors: 1. Puja Chavan 2. Mrunal Shinde 3. Atharva Shinde 4. Nikhil Shinde 5. Jyameh Shinde 6. Neha Shinde

For securing Best Paper Award **Rank 1** in **Parallel & Distributed Computing and Deep Learning Domain**, of **Computer Science & Engineering Track** of the SPICON 2022 conference held on 22nd - 23rd December 2022, organized by SPCE, Mumbai in association with SPPU, Mumbai.

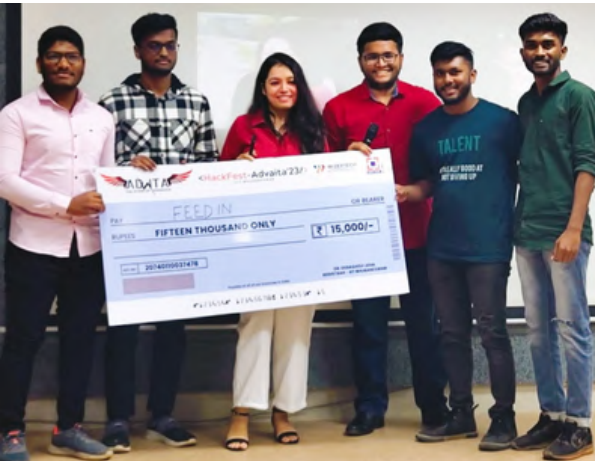
Dr. Kiran Bhale
Program Chair, SPICON 2022

Dr. Santosh Rane
Conference Chair, SPICON 2022

Dr. B.N. Chaudhari
Principal, SPPU, Mumbai

Dr. M. M. Murooli
I.C. Principal, SPCE, Mumbai

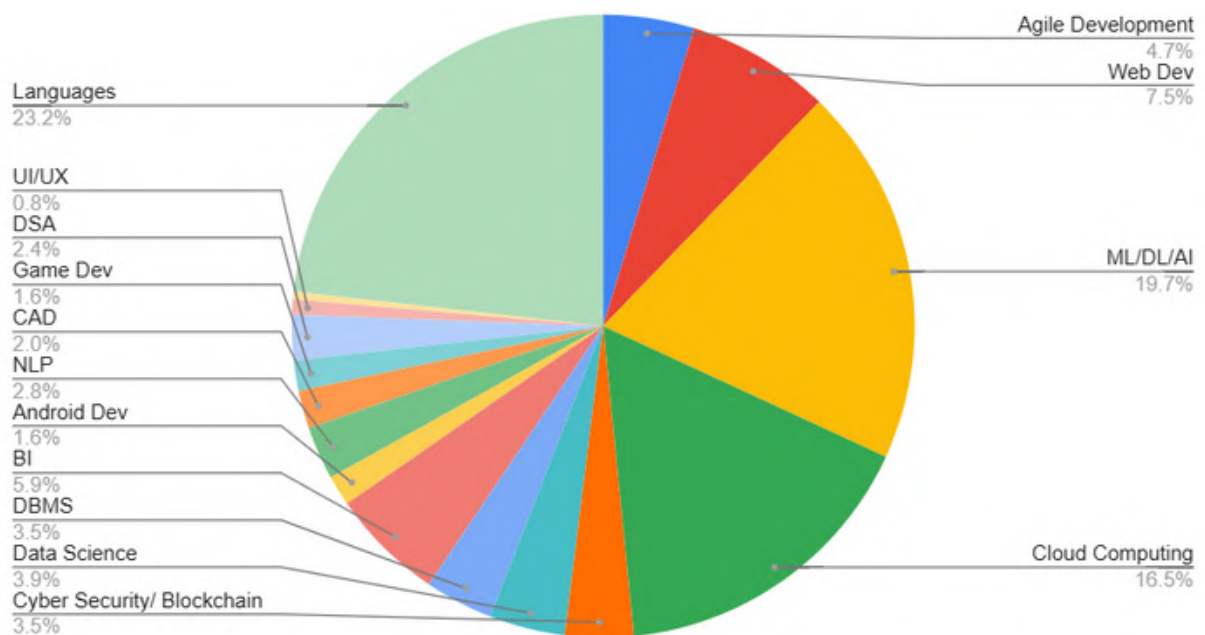
And many more...



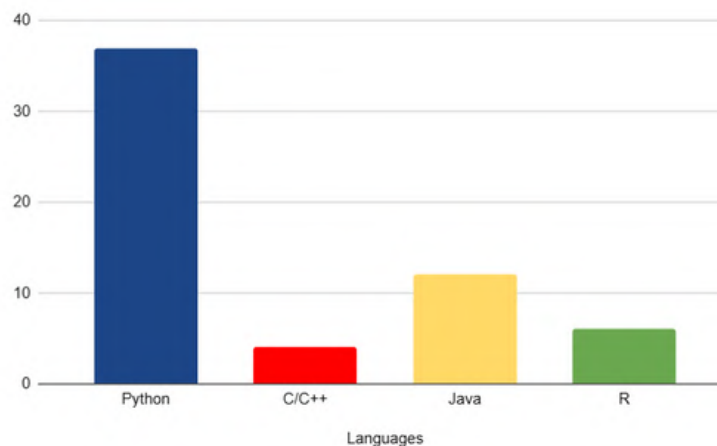
And many more...

Certifications

Throughout the year, our students have successfully completed various certified courses, ranging from Agile project management to UI/UX. Also, many students enrolled in non-technical courses related to finance, journalism, personality development etc., and have received certificates for the same. The graph below depicts the topics students were interested in!



The most trending topics after programming languages can be seen as Machine Learning/Artificial Intelligence and Cloud Computing. Python emerges as a language learned by the most!

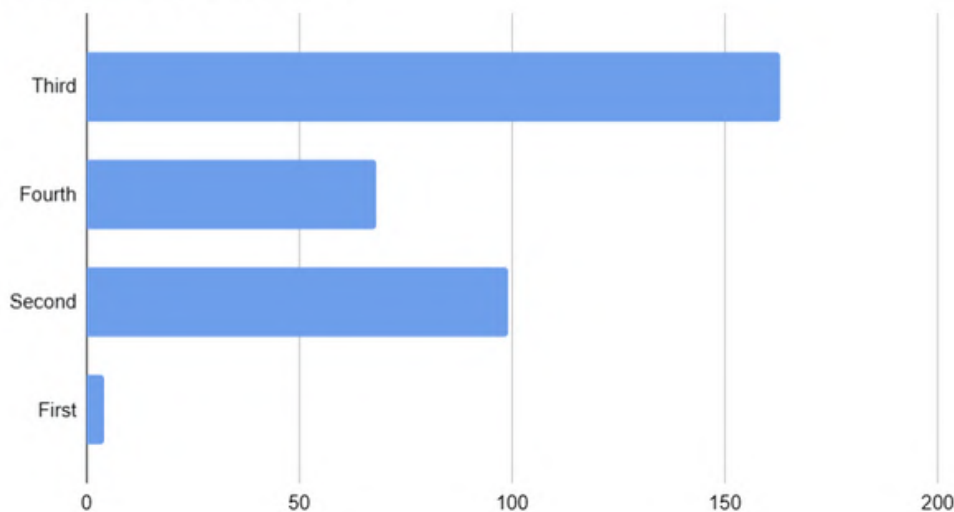


Certifications

The most trending topics after programming languages can be seen as Machine Learning/Artificial Intelligence and Cloud Computing. Python emerges as a language learned by the most!

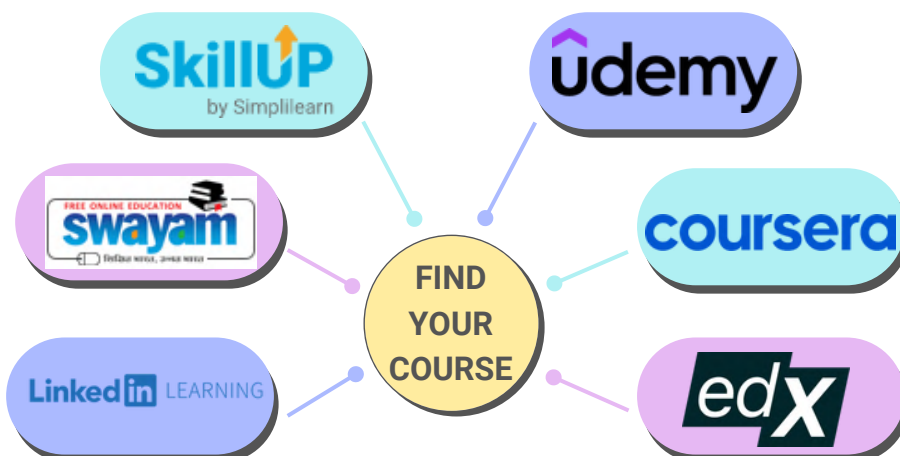
As seen in the graph below, the students in Third Year rank first in completing their certifications, followed by Second, Fourth and First year students.

Year wise certifications



Among the non technical courses, students completed their certifications in Investments, Finance, Communication, Animation and many more courses conducted by LinkedIn, Wisdom Eye, etc.

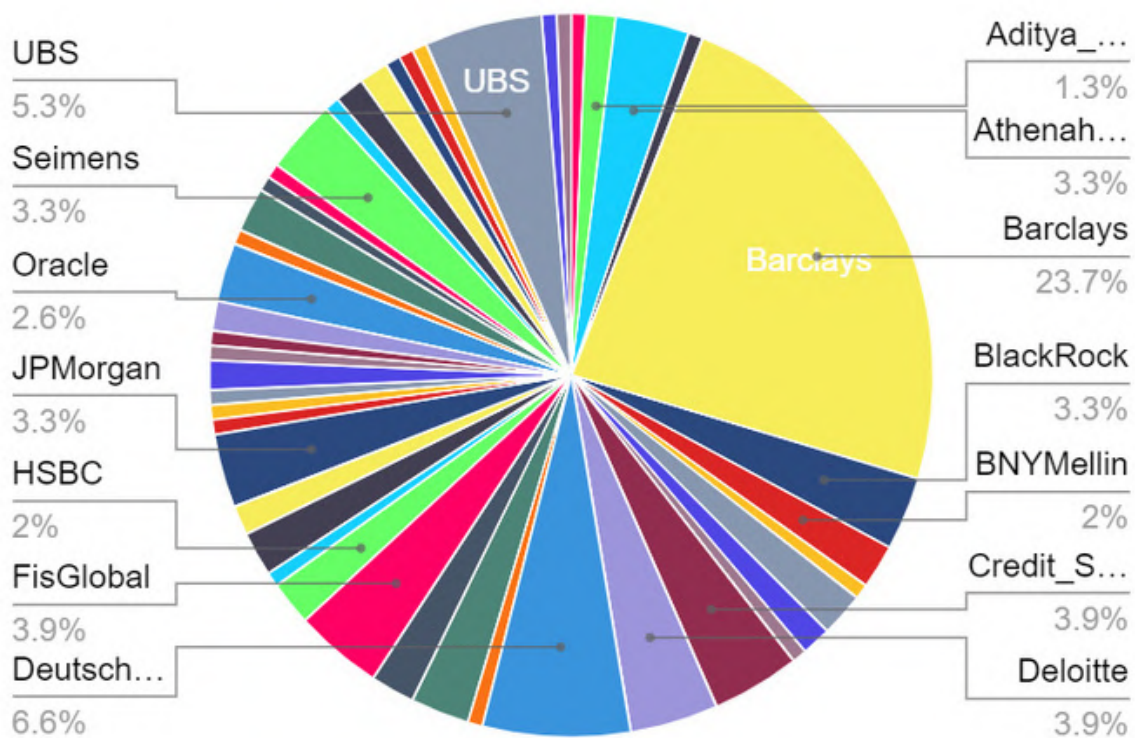
We congratulate each one of the students for completing their courses and sharpening their skills.



Internships

We are pleased to share with you the impressive results of our department students in the internship drive 2022-2023. Many of the students have acquired high profile internships through on and off campus drives, the following chart depicts the status:

Pie Chart



Higher Studies

Many of our 4th year students are pursuing their dreams of higher education across the world. Passing the GRE with flying colors, students have successfully enrolled for Masters in various streams like IT, Cyber Security, Computer science, Business analytics, etc. in renowned institutions. We congratulate them and wish them all the very best!



Sanika Jade
M.eng
Cybersecurity
*Texas A&M University,
College Station, Texas,
USA*



Amol Bohora
MS
Computer Science
*Northeastern University,
Boston, USA*



Deven Yuvraj Bhadane
MS
Computer Science
*Lehigh University, Bethlehem,
Pennsylvania, USA*



Kartik Kakani
MSITM
Information Technology
and
Management, Business
Analytics
*University of Texas at
Dallas*



Manali Teke
MS
Computer Science
*North Carolina State
University, USA*



Om Chakane
MS
Computer Science
*University of Southern
California, Los Angeles,
USA*

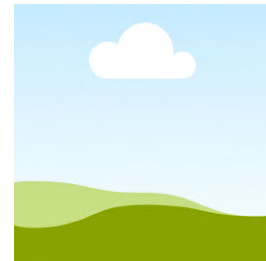
Higher Studies



Parth Pherwani
MS
Engineering Management
University of Southern California, Los Angeles, USA



Rajas Yardi
MS
Computer Science
Syracuse University, Syracuse NY, USA



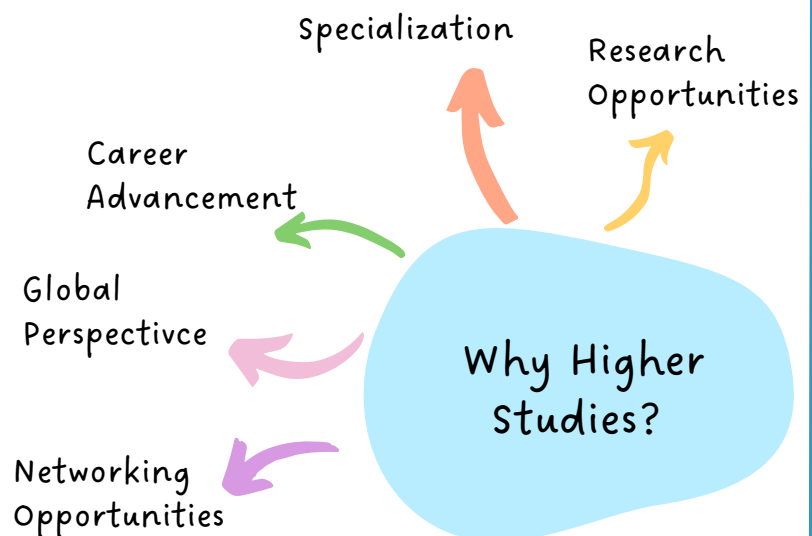
Aakash Nihalani
MS
Information Systems
Stevens Institute Of Technology, New Jersey, USA



Shreyas Habade
MS
Computer Science
Stony Brook University, New York, USA



Virendra Patil
MBA
Computer Science
Savitribai Phule Pune University, Pune, India



Faculty Achievements

Research Projects

1

Title: Problems over Non-commutative Polynomial Rings: A study from Computational Complexity Perspective

Funded by: Science and Engineering Research Board (SERB)

Faculty: Dr. Pushkar Joglekar

Status: Sanctioned

Title: Problems over Integer Lattices: a Study from Computational Complexity Perspective Security and Algorithms Complexity

Funded by: SERB

Faculty: Dr.S. R. Shinde Dr. P.S. Joglekar

Status: Sanctioned

2

3

Title: Precision Farming: Integrating Drone Technology, Location Data, Actuators, and AI for Sustainable Agriculture

Funded by: Science and Engineering Research Board (SERB)

Faculty: Dr. Gopal D. Upadhye, Dr. D. T. Mane, Dr. S. R. Shinde

Status: Submitted



Dr. Sandeep Shinde



Dr. D T Mane



Dr.. Pushkar Joglekar

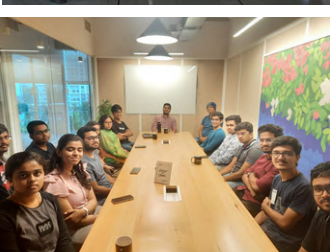


Dr. Gopal Upadhye

Faculty Achievements

Patents

Sr no.	Topic	Faculty Involved
1.	Two stage Automatic Macro and Micro floating plastic-debris water filtering system	Jyoti Kanjalkar
2.	Handpicked Robot for ripe fruit classification using computer vision	Swati Jadhav
3.	A real time garbage truck alert system	Jyoti Kanjalkar
4.	System and method for controlling projection and data packets of a remote computing device	Jyoti Kanjalkar
5.	Roof Cleaning Device Using Machine Learning	Dr. S. T. Patil
6.	AN ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING BASED SUPPLY CHAIN MANAGEMENT SYSTEM AND METHOD THEREOF	Mr. Anant Nagesh Kaulage
7.	Hybrid UAV Using Solar Technology To Extend Flight Time For Surveillance Submitted to Research Dean Dr. D. T. Mane	Dr. S. R. Shinde, Dr. G. D. Upadhye, Mr. Anant N. Kaulage
8.	Obstacle Detection and App Controlled Robot	Dr. G. D. Upadhye, Dr. D. T. Mane Dr. S. R. Shinde
9.	Smart Helmet for the Safety and Monitoring of Coal Mine Workers	Dr. G. D. Upadhye, Mr. Anant Kaulage



Our Team

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Anoushka Mudkhedkar

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Yukta Pedavi

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Jay Pawar

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Preeti Wagh

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Tanmay Pol
Pushkaraj Bhor



**VISHWAKARMA INSTITUTE
OF TECHNOLOGY, PUNE**



Compendium

The Newsletter



[vit_comp_cell](https://www.instagram.com/vit_comp_cell)

