



■ **"Supervisory Development Course" for the selected employees from Mahindra and Mahindra Ltd., Nashik - Training on "Computer Skills"**



An Industry-Academia collaboration is always nurtured at K. K. Wagh Institute of Engineering Education & Research, Nashik. As a part of this a "Supervisory Development Course" for the selected employees from Mahindra and Mahindra Ltd., Nashik has been organized by the Institute. The main objective of this 4 months course was the learning group will receive training on various aspects including Automobile Engineering, Robotics and Automation, Leadership excellence etc. This training was conducted in two phases. On Sunday, 15th May 2022 and 19th June 2022 phase two training was conducted. On 19th June 2022, the training on the subject "Computer Skills" commenced and the faculties from Computer Engineering department Prof. I. Priyadarshini and Prof. P. D. Rakibe conducted the sessions on MS Office. The sessions aimed at letting the employees know and have hand on practice on various utilities from Ms Office that would make their official work more easy. This course is being coordinated by Prof. S. K. Gondhalekar under the guidance of Dr. S. S. Sane, Head, Department of Computer Engineering. At the institute level, Prof. Dr. K. N. Nandurkar and Dr. P. J. Pawar have looked into smoother conduction of the training event.

■ **FE Computer, AIDS and CSD Engineering students visited Smart City Office, Nashik on 25th June 2022**



The Smart Cities Mission is an innovative and new initiative by the Government of India to drive economic growth and improve the quality of life of people by enabling local development and harnessing technology as a means to create smart outcomes for citizens. Regarding this FE Computer, AIDS and CSD Engineering students visited Smart City Office, Nashik on 25th June 2022.

The purpose of this visit was:

1. To create awareness about Smart city initiatives
2. To explore new technologies, and identify areas where students can contribute in the form of projects
3. To interact with the professional experts
4. Internship opportunities

Students learned about the things which they are going to use in near future and they were encouraged and came forward to ask the questions related to Smart City Projects and their contribution for it. The visit was coordinated by Prof. P. D. Rakibe and Prof. S. D. Jadhav under the guidance Prof. Dr. S. S. Sane, Head department of Computer Engineering, KKWIEER, Nashik.

Prof. P. D. Rakibe , Prof. S. D. Jadhav and Prof. K. P. Birla received consultancy in the area Web Development of Divisional Commissioner Office Nashik with Rs. 2.75 Lakhs.



Teams selected for GRAND FINALE of SMART INDIA HACKATHON 2022

Problem Statement by the Organization:
Dept. of Science & Tech.(DoST),Ministry of Science and Technology

Team Members:

Shaikh Affan(SE AIDS)

Sakshi Pawar(SE Computer)

Parimal Thakre(SE Computer)

Prathamesh Dharmadhikari(SE Computer)

Riya Jain(SE AIDS)

Mentors:

Prof.Priya D.Rakibe

Prof.Jaydeep Shah



Problem Statement by the Organization:
Ministry of Electronics and Information Technology (MEITY)

Team Members:

Sanchita Jain(FE Computer)

Ruchira Chaudhari(FE Computer)

Namrata Pahade(FE Computer)

Rucha Chaudhari(SE Computer)

Sharyu Marwadi(SE Computer)

Vaidehi Patil(SE Computer)

Mentors:

Prof.Priya D.Rakibe

Prof.Jaydeep Shah



Prof. Priya D. Rakibe felicitated for guiding 3 groups for Smart India Hackathon 2022 and out of these 2 groups are selected for Grand Finale which will be held at Hyderabad and Chennai.



Dr. R. D. Kulkarni , Adjunct Professor in the department secured first Rank in Nationwide Essay Writing competition, in Marathi Language Category, arranged on occasion "Aajhadee Ka Amrit Mahotsav" by National Institute of Security Markets (NISM) & Security Exchange Board of India (SEBI) on 24th July 2022. The essay was on theme on "Financial Literacy". This enabled the opportunity to interact with top-officials at SEBI including the SEBI chairperson Ms. Madhvi Puri Buch. They have appreciated the efforts taken by her in spreading the financial literacy in society. The reward includes cash prize of Rs. 25,000, silver medal, certificate and shield.



Dr. R. D. Kulkarni, Adjunct Professor in the department was invited as chief guest for Prize Distribution Ceremony arranged at Pushpavati Rungtha Kanya Vidyalaya, Nasik. The achievers of SSC exam 2022, were felicitated on this occasion. She spoke about career opportunities available to the youngsters in the field of Data Science and other parallel fields.



■ **Industry visit to BGSW (BOSCH Global Software Technology) on 30 July 2022**



■ **An expert talk on the topic “Career after GATE Examination”**



An expert talk on the topic “Career after GATE Examination” was conducted on 1st august 2022, 1:00pm to 3:00 pm at Department of Computer Engineering, K. K. Wagh Institute of Engineering and Education Research, Nashik. Talk was organized under Debuggers Club activity. The session was conducted by Mr. Suraj Singh Thakur (AIR GATE 4). The main aim of the session was to

let TE students know about the career options after GATE Examination. He talked about all the career pathways after the B.E. and also the current situation of the Industry for the IT and Computer students. The most important part of the session was he told about how each person should use the Geometric Progression in their lives. He explained the paper pattern for GATE, How to manage time? How to prepare? What should be the strategies? How a person can get scholarship for doing MTech? Students enjoined the interactive session and around 80 students and staff members attended this session. The session was coordinated by Prof. S T Patil, and Prof C R Patil, Computer Engg. Dept., under the guidance of Head of Department Prof. Dr. S. S. Sane. Jayesh Gavali and Mayuri Jadhav worked as the student coordinators for the same. They have given the introduction of the expert and vote of thanks on behalf of the department.

■ **An online expert talk on “Graph Mining & GEPHI Software”**



An online expert talk on “Graph Mining & GEPHI Software” was conducted on 20th August 2022 by Department of Computer Engineering, K. K. Wagh Institute of Engineering Education and Research, Nashik. The session was conducted from 01:00 pm to 2:30 pm. Objective of this session was have a basic understanding of Gephi software for visualizing the data. The session was conducted by Ms. Prajakta Vispute, PhD Scholar at our Research centre. She covered basics of graph mining and its applications and demonstrated the Gephi Software for data visualization. She also explored the recent research going on in this domain for selecting topics as final year projects.



■ **An expert talk on the topic “Digital Image Processing: Real Time Applications”**



An expert talk on the topic “Digital Image Processing: Real Time Applications” was conducted on 25th August 2022, 10:00am to 12:00 pm at Department of Computer Engineering, K. K. Wagh Institute of Engineering and Education Research, Nashik. Talk was organized as a gap in the syllabus. The session was conducted by Dr. Madhumita Takalkar, University of Technology, Sydney, Australia for third year students of Computer Engineering. Objectives of session were: to understand the basic concepts related to Digital Image Processing, to know the applications of Digital Image Processing, to know the future scope/work area in this technology. Dr. Madhumita covered many real-life applications like Agricultural, Multimedia Security, Remote Sensing, Computer Vision, Medical Applications, Biometric Verification, Face / finger print / Iris Detection and Recognition, etc. She explained about image analysis and computer vision. She also made the webinar interesting by giving already implemented examples about the related technology such as Shark Detection System, Mass surveillance in China, E-Tax/E-tolls, Wild Fire/Bush Fire System in Australia, Drowsiness Detection System etc. She also enlightened us about her research work about micro expression detection.

Students enjoined the interactive session and around 115 students and staff members attended this session. The session was coordinated by Prof. Dr. Y.D. Bhise , Computer Engg., under the guidance of Head of Department Prof. Dr. S. S. Sane. Sayli Kukarni, Sanket Janger, Prajкта Patil, Kuntesh Mahajan worked as the student coordinators for the same.

Study Visit to IIT Madras on 30th August 2022 by TE Computer and AIDS students with Prof. P. D. Rakibe



Monali P. Mahajan, Assistant professor ,Department of Computer Engineering received second prize in Handwriting Competition on 10th August 2022 jointly organized by SWS Financial Solutions Pvt. Ltd. and Alparambh Educational and Cultural Foundation , Nashik.





****Congratulations****

Prof. S. S. Banait successfully defended his Ph. D thesis under the guidance of Prof. Dr. S. S. Sane on 25th August 2022 from Dept. of Computer Engg. KKWIEER, Nashik.



Prof. Y. D. Bhise is one of the author for the book titled Data Structures and Algorithms (First Edition) published by Scientific International Publishing House (SIPH) having ISBN: 978-93-5625-166-3

■ A hands-on workshop on “Git and Github”



A hands-on workshop on “Git and Github” was conducted on 12th September 2022 organized by the Department of Computer Engineering, K.K.Wagh Institute of Education and Research, Nashik in association with CSI Students branch, KKWIEER, Nashik. The speakers were students of BE Computer Department- Himanshu Rathore, Abhishek Pal and Param Shelar who engrossed the audience into deep learning of Git and Github. Total 90 participants of SE attended the workshop. A quiz related to the topic taught was conducted on Kahoot at the end and the first 3 rankers of the quiz were declared and presented with prizes. The hands-on workshop was successfully presented by speakers and the committee of CSI Students Branch, KKWIEER coordinated this hands-on workshop smoothly which was a comprehensive guide to kickstart a Git and Github journey. The workshop was brought together under the guidance of Prof. MeghaPatil and Prof. Dr. Yogita Bhise.

■ An Introductory Session on Women In Tech Internships for Girl students





Department of Computer Engineering
K.K. Wagh Institute of Engineering Education and Research, Nashik.

TECHTIMES

NEWS LETTER A. Y. 2022-2023 SEM I

Women in Tech (WIT) is a free online training fellowship program giving a great opportunity to young women in tech industry for around 6 months. WIT gives freedom to girls to nurture their intellectual curiosity, while providing them the necessary resources, peer learning, Mentor support, project based learning to shape their ideas into tangible results.

An Introductory Session on Women In Tech Internships was arranged for Girl students from Computer, IT, AI&DS and MCA department by Department of Computer Engineering in association with Student Branch of CSI on Wednesday, 24th August, 2022 from 10.30 AM to 12.30 PM. 61 girl students attended this session. The session was coordinated by Prof. M. J. Patil and Prof. P.S. Kubal under the guidance Prof. Dr. S. S. Sane.

Through Alumni Network of our department, a social activity has been carried out on 14th September 2022. A total of 45 Food packets were donated through अन्नपूर्णा सेवा समिती, to the needful patients and their relatives at Civil Hospital Nashik.

Total 4 alumni contributed for the noble cause

1. Rohit Agarwal
2. Vaishali Kathe - Tidke (1999)
3. Sonali Patil - Shinde (1999)
4. Rupali Waje-Kulkarni (1999)

Prof. Seema Gondhalekar, Prof. Namrata Pagare and student volunteers from TE assisted in this activity.



Engineer's Day program was arranged on 15th September 2022 by the Department of Computer Engineering, K.K. Wagh Institute of Education and Research, Nashik in association with CSI Students branch, and KKWIEER, Nashik and Debugger's club. Mr. Sandip Karkhanis, member of CSI, was chief guest of this program. He explained importance of planning, collaboration and cooperation in engineering field. Announcement of new committee CSI student chapter and Debugger's club and felicitation of previous committee was done. Prize distribution of various events conducted by student's club was done in hands of chief guest.

Celebration of Engineer's Day program in association with CSI student Branch and Debugger's Club on 15th September 2022 with Mr. Sandip Karkhanis, as a chief guest



Dr. R. D. Kulkarni, Adjunct Faculty of dept. conducted a "Financial Awareness" session for a team of 60, at Thyssenkrupp, Roth Erde, Gode on 7th September 2022. The various concepts under basic financial literacy were explored.





Prof. Dr. Y. D. Bhise delivered an expert talk on the topic “Motivational Speech: Skills, Attitude and Time Management” delivered on 27th September, 2022, 12:15 pm to 2:15 pm at Rasbihari International School, Panchwati, Nashik. Objectives of session were to develop attitude and inculcate skills, to understand importance of Time Management. With the help of some real time examples, she explained positive attitude development to students. Also demonstrated how communication is an important skill. This activity was organized by school under “Coffee with Mom” Section.



■ Panel discussion on “Scope and Careers Opportunities in Computing Sector”



Panel discussion on “Scope and Careers Opportunities in Computing Sector” was conducted in an online manner using Zoom platform on Saturday 01st October 2022 for 12th passed-out students willing to seek admission to Computer Engineering, Artificial Intelligence and Data Science Engineering, Computer Science and Design Engineering Courses along with Existing students of the department. Total 37 participants attended the panel discussion.

Mr. Rahul Nene (1993 batch, Computer Engg), Enterprise Architect, TietoEVRY, Mr. Hrushikesh Wakadkar (2000 batch, Production Engg), Co-Founder, Director, eLuminous Technologies Pvt. Ltd. President, Nashik IT Association, Mr. Vaibhav Kulkarni (2006 batch Computer Engg), Software Architect, ValueAdd Softech & Systems Pvt. Ltd., Mr. Anand Mahuli (2012 batch Computer Engg), Software Engineer, Acquia India, Ms. Gazala Naeem Khan (2019 batch Computer Engg), FinIQ, Nashik were the panelists who guided the participants. Prof. N. M. Pagare welcomed all the participants and introduced panelists. Dr. S. S. Sane, Head, Dept. of Computer Engineering briefed about the updates of the department. Prof. N. M. Pagare initiated the core discussion. Panelists guided the participants based on their expertise and also provided satisfactory answers to the questions raised by participants. Training and placement officer, Dr. P. K. Shahbadkar shared information about training and placement of the institute. Head of the department, Dr. S. S. Sane provided concluding remarks. Prof. P. S. Kubal delivered a vote of thanks. Prof. N. M. Pagare and Prof. P. S. Kubal coordinated the event.

■ An Expert talk on "Innovating at the speed of life" was conducted on



On the occasion of National Innovation Day, an Expert talk on "Innovating at the speed of life" was conducted on 15th Oct., 2022. It was conducted jointly by members of CSI student branch, KKWIEER, IIC committee. The session started with Welcome of our honorable Guests, the Principal and the Vice Principal followed by introduction of National Innovation Day by Ms. Prajakta Patil. After that introduction about CSI and IIC was given by Ms. Sakshi Pawar. Then, Ms. Sayali Kulkarni introduced our participants with our Guest Speaker Dr. Kuruvilla Mathew and a few words were spoken by our Principal, Dr. K.N. Nandurkar.



Department of Computer Engineering
K.K. Wagh Institute of Engineering Education and Research, Nashik.

TECHTIMES

NEWS LETTER A. Y. 2022-2023 SEM I

The session was then delivered by Mr. Kuruvilla Mathew, Chief Innovation Architect, UST and General Manager, Modernization.(Alumni of K. K. Wagh Institute of Engineering Education and Research, Nashik). Mr. Mathew guided our participants on various topics like How is innovating different from inventing, Solving the right problem, etc. It was then followed by a Q&A session in which all of the participant's queries were answered.

The session was coordinated by Dr. Yogita Bhise and Dr. R. K. Munje. The session concluded with the words of Dr. S S Sane and Vote of Thanks by Mr. Jayesh Gavali.

Ms. Prajkata Vispute successfully defended her Ph. D under the guidance of Prof. Dr. S. S. Sane on 18th October 2022



Felicitation of final year Engineering placed students on 13th October 2022 at K. K. Wagh Polytechnic, Nashik



Felicitation of final year Computer Engineering placed students on 18th October 2022 at Government Polytechnic, Nashik



In connection with birth anniversary of Late. Shri Balasaheb Wagh (Bhau) department of Computer Engineering organized various events to pay homage to Bhau. Paying rich tribute to Bhau occasion on his birth anniversary, Prof. Dr. S. S. Sane vice Principal and Head department of Computer Engineering said that Bhau was one of the greatest leaders and his ideas and views were able to withstand the test of time. On the occasion, students from Computer Engineering presented and performed पथनाट्य – कर्मधुरंदर, Portrait Rangoli and Chalk sketch under the guidance of Prof. Priya Rakibe. Beautiful poem presented by a Prof. Priya Rakibe depicting the heart touching ethical and moral values of Bhau.

19th October (Birth Anniversary) legends leave behind them the good thoughts, deeds, and inspirations for many generations





विद्यार्थ्यांकडून २८ हजार स्कूल बॅजेसची निर्मिती

वाघ महाविद्यालय : 'गुगल क्लाउड रेडी'चा टप्पा पूर्ण

नाशिक : पुढारी वृत्तसेवा
के. के. वाघ अभियांत्रिकी महाविद्यालय व 'गुगल क्लाउड' यांच्या संयुक्त विद्यमाने विद्यार्थ्यांकडून नुकतीच 'गुगल क्लाउड रेडी फॅसिलिटीवर' कार्यशाळा घेण्यात आली. या कार्यशाळेत गुगल इंजियरिंगद्वारे धारतातील केवळ ८५० संस्थांची निवड केली गेली. यामध्ये समावेश असलेल्या के. के. अभियांत्रिकी महाविद्यालयाने क्लबलेव्हरील २८ हजारहून अधिक क्वेस्ट लॅब आणि स्कूल बॅजेस पूर्ण करून महत्वाचा टप्पा गाठला आहे. या उपक्रमांतर्गत मिळालेले प्रमाणपत्र आणि स्कूल बॅजेस जागवत नोंदरीच्या दृष्टीने महत्वाचे मानले जाते.

समन्वयक टीमकडून या उपक्रमांतर्गत १०५० हून अधिक के. के. वाघ आणि इतर काही नोंदणीकृत संस्थांचे विद्यार्थी गुगल क्लाउड रेडीचे प्रशिक्षण घेत आहेत. क्लाउड टेक्नोलॉजीवर क्लबलेव्हर प्लॅटफॉर्मद्वारे क्लाउड कॉन्सुल्टिंग, मशीन लर्निंग, बिग डेटा यंत्रणे आर्टिफिशियल इंटेलिजन्स साकारण्या जटिलीयुख विषयाचे लॅब प्रॅक्टिकल इंटरनेट ऑनलाइन पद्धतीने विद्यार्थी शिकत आहेत. गुगल क्लाउडद्वारे सराव व आवडी क्षेत्रातील क्लाउडमध्ये असणाऱ्या करिअरच्या संधी या उद्देशाने हा उपक्रम राबवण्यात आला. प्रा. कुशल बिल्लो यांच्या मार्गदर्शनाखाली अंतिम वर्षाचे विद्यार्थी तेजस सोनार व कृष्णा बोरोडे हे क्लाउडचे प्रशिक्षण देत आहेत.



नाशिक : 'गुगल क्लाउड रेडी'चे प्रमाणपत्र प्रदान करताना संस्थेचे अध्यक्ष सधरि वाघ, सचिव प्रा. के. एम. बंसी, प्राचार्य डॉ. के. एन. नानुरकर, विभागप्रमुख डॉ. शिरीष साने, अभियंता डॉ. सुनील कुटे आदी.

■ An expert talk on “Role of fitness in student Life and Beyond”



An expert talk on “Role of fitness in student Life and Beyond” by Mr. Anirudha Athani (the first certified marathon trainer and ultra marthaon runner from Nashik) for first year FY B.Tech. students of Computer Engineering, AIDS and Computer Science and Design dept were arranged on 18th and 19th November 2022 under student activity. Total 3 sessions for the 5 division students were arranged. Session Objective was: To enhance awareness about health issues and importance of good health . Before starting the session Mr. Anirudha conducted the Quiz, around 170 students participated in the quiz with enthusiasm. Lastly, students asked few doubts & filled the feedback. The session overall was a success and the objective of making students aware of importance of Fitness. The Session was coordinated by Dr. R D Kulkarni and Prof. C R Patil under the guidance of Head of department Prof. Dr. S. S. Sane.

Social Activity:

The department of computer engineering always has been vigilant towards arranging helpful activities for the society. In the same concern, on 14th Oct. 2022, a 'Sales Stall' activity was arranged at the institute level to lend a helping hand to the NGO namely "Gharkul Parivar Sanstha" located at Pimpalgaon Bahula, Nasik. This organization works for special girls and avails them training in making useful consumables and food items. Keeping the occasion of the upcoming Deepawali Festival in mind, the volunteers from there displayed various items like diyas, lanterns, bags, Deewapli Faral etc. made by these special girls. The activity could do the sales of approx. 13,000/-. Dr. R. D. Kulkarni, adjunct faculty from the department assisted them.



■ A online session on “The Internship and Placement Talk 101”





A online session on “The Internship and Placement Talk 101” was organized by CSI student branch of KKWIEER on November 24, 2022, in KKWIEER as a part of the CSI Student's Chapter through online Gmeet. Mr. Abhishek, a KKWIER alumnus currently employed with NVIDIA, gave the talk. The session's goal was to inform the students of the actual interviewing procedure. The primary goal was to mentor students in the areas of communication and presentation skills, internship guidance, and coding skills. The session clarified the fundamentals of interview and coding rounds and showed students how to develop in a more successful way. For SE and TE, the session was intended. Giving the participants a rundown of the how, what, when, and why of interview rounds. He taught pupils about aptitude tests, how to begin preparing for them, and even how to handle HR interviews and rounds. What should be listed on a resume and how? Also, the best techniques to develop communication abilities. The session was interactive. Many students asked their doubts regarding internships. Around 100 participants were present for the session. The session was coordinated by Sakshi Pawar, Mansi Mahajan, and Anushka Unhale and CSI student committee members.

To gain necessary knowledge regarding financial decisions about budgets, debts and how to invest safely , to work on less financial stress and anxiety , to increase in ethical decision making when selecting insurance, loans, investments and credit card , to work on Reduction of expenses , to encourage early investments. Expert explained basic terminologies related to finance. Also focused on less financial stress and anxiety. She elaborated how to increase in ethical decision making when selecting insurance, loans, investments and credit card. She explained how to manage expenses and also suggested benefits of Early investments. She focused on Security of Finance policies. The session was very interactive. Before starting the session Mrs. Prachi conducted the Quiz, around 250 students participated in the quiz with enthusiasm. Lastly, students asked few doubts filled the feedback. The overall session was a success and the objective of making students aware of importance of Financial awareness and security. The session was coordinated by Prof. R. D. Kulkarni and Prof. Dr. Y .D. Bhise, Computer Engg., under the guidance of Head of Department Prof. Dr. S. S. Sane. FY students Affan Khan, Lulwa Shabbir, Swati Bedse, Nishant Bhise, Aditya Borse, Sakshat C, Vivek Bendre, Prathmesh Gavhane, Suraj Yeola, Nishant Shinde, Srushtti, Tejas Nanoti were the student coordinators of the event.

■ **An expert talk on the topic “From Financial Literacy to Financial Security” was conducted**

Congratulations



An expert talk on the topic “**From Financial Literacy to Financial Security**” was conducted during 25th and 26th Nov. 2022, for FY B. Tech students (Div A,B,C,D,E) as a Department Activity. The sessions were conducted by Prachi Deshmukh, Master's Degree in Education from Boston University. Objectives of session were:



Prof. Dr. S. S. Sane elected as a “Chairman, BOS in Computer Applications” , for the period of 2022-2024. This is the third successive term as Chairman BOS in Computer Applications, 2018-2020, 2020-2022 and current year 2022-2024.



Department of Computer Engineering
K.K. Wagh Institute of Engineering Education and Research, Nashik.

TECHTIMES
NEWS LETTER A. Y. 2022-2023 SEM I

Prof. Y. D. Bhise of Computer Engineering received the "Distinguished Women Academician Award" in the International Conference and Award ceremony on Multidisciplinary Research and Global Transformation (ICMRGT-2022) organized by from Research Education Solutions in association with Sidvi Foundation during 10/11/2022 and 11/11/2022.

!! Congratulations !!

Ms. Aasawari Shirposkar, L&T Infotech, Mumbai
(Alumni, Computer Engg Dept, 1995 Batch)

For Translation of Book on "Programming & Problem Solving"
in Marathi



- Felicitation of Ms. Aasawari Shirposkar by Minister of Higher Education, Maharashtra State, Hon. Shri. Chandrakantdada Patil, MLA Hon. Ashish Shelar at Mumbai University on 14 November 2022 in the presence of Union Education minister for State Hon. Dr. Subhash Sarkar, the Chairman UGC, New Delhi, Hon. Prof. Dr. Jagdish Kumar, Chairman of NBA, Hon. Prof. Dr. K.K. Agarwal Vice Chairman, AICTE, Hon. Dr. Punia, Principal Secretary, Higher and Technical Education, Hon. Mr. Vikas Chandra Rastogi and Director of Technical Education (MS), Hon. Dr. Abhay Wagh.



Prof. Priya D. Rakibe for being felicitated for extra ordinary contribution as a judge in International Hackathon- "Sunhacks22" (36 Hours -10th to 12th Nov 22)



- Master Nishant Bhise, our student of F. Y. B.TECH (AI-DS) and Prof. Dr. S. S. Sane, HOD Computer Engg accepting set of First year Engineering books in Marathi for our Institute at Mumbai University on 14 November 2022 at the hands of the Chairman of NBA, Hon. Prof. Dr. K. K. Agarwal in the presence of Union Education minister for State Hon. Dr. Subhash Sarkar, the Chairman UGC, New Delhi, Hon. Prof. Dr. Jagdish Kumar, Vice Chairman, AICTE, Hon. Dr. Punia, Minister of Higher Education, Maharashtra State, Hon. Shri. Chandrakantdada Patil, MLA Hon. Ashish Shelar, Principal Secretary, Higher and Technical Education, Hon. Mr. Vikas Chandra Rastogi and Director of Technical Education (MS), Hon. Dr. Abhay Wagh.



Seminars/Workshop/Training attended by staff:

- Prof. D. M. Kanade attended Industry Training at Y2B Secure Cyber Security Solution Nashik,Pune from 13th to 21st June 2022.
- Prof. Dr. S. M. Kamalapur , Prof. P. P. Vaidya attended FOP on Machine Learning , SIT, Lonavala on 29th July 2022.
- Prof. S. T. Patil , Prof. P. D. Rakibe attended FOP on Design and Analysis of Algorithms , Modern CoE , Pune on 29th July 2022.
- Prof. M. P. Mahajan attended One Week Faculty Development Program on "Recent Trends in Computations" , VIT Pune from 18th to 23rd July 2022.
- Prof. Dr. S. M. Kamalapur , Prof. K.P. Birla , Prof. C. R. Patil attended One day syllabus revision FoP on Lab Practice III by KBTCOE , Nashik on 2nd August 2022.



- Prof. S. S. Banait attended One Day Online Faculty Orientation Program on “Laboratory Practice-IV”, MMIT Lohgaon, Pune on 3rd August 2022.
- Prof. Dr. Y. D. Bhise , Prof. K. P. Birla attended One Day Syllabus Revision Online Faculty Orientation Programme on “Block chain Technology (BE 2019 Course)” on 1st August 2022.
- Prof. Dr. Y. D. Bhise attended One Day Online Faculty Orientation Program on “Database Management System” TE (AI & DS) 2019 Course , MMIT Lohgaon, Pune on 6th August 2022.
- Prof. Dr. Y. D. Bhise attended Faculty Orientation Program on “Pattern Recognition” , KKWIEER , Nashik on 5th August 2022.
- Mrs. R. A. Palde attended A Six days FDP on "Smart Manufacturing” , AICTE IDEA Lab , KKWIEER , Nashik from 12th to 17th September 2022.
- Prof. S. T. Patil attended 5 Days FDP on Data Science: Tools and Research from 1st to 5th November 2022.

Papers Presented by Staff and Student

Title of Paper: Novel Data Dimensionality Reduction Approach using Static Threshold, Minimum Projection error and Minimum Redundancy

Author: Satish S. Banait And Dr. S. S. Sane

Organizer: Asian Journal of Organic & Medicinal Chemistry

Abstract: Dimensionality reduction is an important mechanism to remove redundant and unused attributes from the dataset. Feature selection and feature extraction are key techniques that have been used for dimensionality reduction. A novel hybrid approach named Minimum Projection error Minimum Redundancy (MPeMR) has also been formulated in the literature to improve dimensionality reduction further. In this work, Threshold value is defined to select a combination of features based on Normalized

Projection Error (NPe) value. After feature extraction, correlation coefficient and variance techniques are applied for feature subset selection. In this research work we proposed Semi Feature Minimum Projection error Minimum Redundancy (S-MPeMR) algorithm in which feature selection and feature extraction methods are used to generate compound feature set using semi features. For feature extraction MPeMR technique is used, wherein initially semi features are extracted using NPe technique by checking orthogonality among selected original features and combination of features. As against to MPeMR in the proposed S-MPeMR algorithm two novel schemes are used namely, 1) NPe checking based on static threshold value 2) NPe checking based on dataset specific threshold value. In order to validate the proposed algorithm, K-means clustering technique is used to evaluate clustering quality of selected feature subset. Five datasets viz. Ecoli, Abalone, Movement Libras, Yeast, and Waveform Isolate, and Segment are used for performance evaluation. The K-means algorithm is supplied with these five datasets before and after applying Principal Component Analysis (PCA) technique. As compared to the existing MPeMR algorithm, the proposed S-MPeMR algorithm yields high clustering quality.

Keywords: Normalized Projection Error (NPe), Semi Feature Minimum Projection error Minimum Redundancy (S-MPeMR), Dimensionality Reduction, Feature Extraction, Feature Selection, K-means, Principal Component Analysis (PCA).

Title of Paper: Analyzing Impact of Single View and Multi View Big Data on Clustering Quality via K-means Technique

Author: Satish S. Banait And Dr. S. S. Sane

Title of Paper: Novel Data Dimensionality Reduction Approach Using Static Threshold, Minimum Projection Error and Minimum Redundancy

Author: Satish S. Banait And Dr. S. S. Sane



Title of Paper: Evolutionary Instance And Feature Selection Using Lsh-Is And Pearson Correlation Coefficient In Big Data Environment

Author: Satish S. Banait And Dr. S. S. Sane

Title of Paper: Understanding the Base Community Structure in the Dynamic Social Networks

Author: Ms. Prajka Vispute , Prof. Dr. S. S. Sane

Abstract: Community detection in dynamic evolving social network analysis is one of the most studied topics and has applications in many fields. Tremendous research is carried out in this field. Most of the studies focus on detecting communities on the initial static network known as base communities, and further updating these communities for evolving data. As base communities laid the foundation for processing the evolving data in dynamic social networks, it is essential to understand the base community structure. This paper deals with analyzing non-overlapping base communities in the undirected network. To understand the community structure and community parameters network internal as well as community internal parameters were used.

Title of Paper: Reinforcement mSVM: An Efficient Clustering and Classification Approach using reinforcement and supervised Techniques

Author: Dr.Satish S. Banait , Dr.S. S. Sane
Dr.DipakBage

Title of Paper: An Efficient Clustering Technique for Big Data Mining

Author: Dr. Satish S. Banait, Dr. S. S. Sane, ,Dr. Sopan A. Talekar

Title of Paper: Astronomical Image colorization and up-scaling with Conditional Generative Adversarial Networks

Author: Shreyas Kalvankar1, Hrushikesh Pandit2, Pranav Parwate3, Atharva Patil4, Snehal Kamalapur5

Abstract: This research aims to provide an automated approach for the problem of Image colorization and Single Image Super Resolution by focusing on a very specific domain: astronomical images, using Generative Adversarial Networks. We explore the usage of various models in RGB and L*a*b color spaces. We use transfer learning owing to a small data set, using pre-trained ResNet-18 as a backbone encoder and fine-tune it further. The model produces visually appealing images that are high resolution and colorized. We present our results by evaluating the GANs quantitatively using distance metrics such as L1 distance and L2 distance in each of the color spaces across all channels to provide a comparative analysis. We use Fréchet inception distance (FID) to compare the distribution of the generated images and real image to assess the model's performance.

Faculty Coordinator: M. P. Mahajan

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K. K. Wagh Institute of Engineering Education and
Research, Nashik*

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