



Dr. D. Y. Patil Educational Federation's
DR. D. Y. PATIL COLLEGE OF ENGINEERING AND INNOVATION

Department of Computer Engineering

REMINISCENCE

Volume-II (A.Y. 2022-23)

VISION

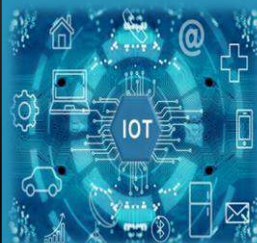
To Produce Global Standard Professionals, Innovators and Entrepreneurs with strong fundamental concepts and desire to learn latest trends and Technologies in the field of Computer Engineering.

MISSION

Adapt changes in recent trends and technologies by effective Teaching-Learning process to train the students.

Prepare Competent Computer Engineers to sustain in the competitive global corporate world with a spirit of good work ethics.

Inculcate self-continuous learning and the ability to work in a team to share Innovation and research.



Skill Development Program

- Quantitative Ability and Logical Reasoning
- 'C' Programming
- Microsoft Cloud
- Blockchain Application

Expert Session

- Aptitude
- 'C' - Language for Industry
- Core Java
- Training and Placement Process Session
- Decoding Web-3.0 and its opportunity
- Machine Learning and Deep Learning

Industrial Interaction

- CoinDCX- Pune Local Chapter
- Campus Connect Program by Infosys
- Google Cloud Community Day 2023
- Cyber Shiksha and Cyber Suraksha – Quick Heal

Achievement

- Faculty
- Students

Parent – Teacher Meet

Short Term Training Program

HOD DESK



Prof. (Dr.) Alpana P. Adsul, Ph. D, M.E(CSE)
Head of Computer Engineering

Greetings, Readers

The publication of our Reminiscence for the academic year 2022–2023 (Volume II) little bit exciting. Every day, we are adding "Little Drops of Water Make the Mighty Ocean" come to life. Our Reminiscence is just a dewdrop in the ocean that has already begun to form. I want to express my sincere gratitude to all of the faculty, staff and students who have put their all into this publication. This publication will throw light on the events held by the Department of Computer Engineering, achievements and the extra-curricular, co-curricular and academic success of the students and the faculty.

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Skill Development Program **Quantitative Ability & Logical Reasoning**

Date: 23 and 25th January 2023

Speakers: Dr. Satish V. Lakde (Sr. Trainer, Verbal Ability), Mr. Roohshad Mistry (Sr. Trainer, Quantitative Ability) and Mr. Dhaval Dand (Sr. Trainer, Quantitative Ability and Logical Reasoning) from Giri's Techhub have interacted with third year Computer Engineering Students.



Quantitative Ability & Logical Reasoning

The session was useful in developing quantitative skills which helps in developing cognitive skills, interpreting and analyzing mathematical information, finding appropriate methods of solving problems and evaluating the validity of results. Cognitive skills enhance logic and reasoning skills. Because of this interaction with expert people from industry, student also learn the quantitative reasoning which is nothing but the ability to use mathematics and information to solve real world problems.

'C' Programing **Concepts of 'C' Programming**

Date: 27th and 28th January 2023

Mr. Pravin Gaikwad (Sr. Trainer, Giri's Techhub) has taken an important session through which students got idea about different questions in 'C' which can be asked during technical interview. Students started exploring different aspects regarding input/output, keywords, conditional statements during practical sessions.



Understating the Concepts of 'C'

Many later languages have borrowed syntax/features directly or indirectly from the C language. Like syntax of Java, PHP, JavaScript, and many other languages are mainly based on the C language. C++ is nearly a superset of C language. if a person learns C programming first, it will help him to learn any modern programming language as well. As learning C help to understand a lot of the underlying architecture of the operating system. Like pointers, working with memory locations, etc.

Microsoft Cloud Cloud Computing Job Opportunities

Date: 31st January 2023

Speaker: Mr. Amol Aher (Director & Head of Operations, KasNet Technologies Pvt Ltd).
Students Attended: 83 Students.

Expert session organised to understand Cloud Computing, Mr. Amol Aher discussed about available Certification Courses on Artificial Intelligence. Students got information in Cloud Computing job opportunities.



Expert Session on Cloud Computing



Students Interaction on Job Opportunities

Blockchain Application Expert Session and Student Interactions

Date: 6th February 2023

Speaker: Mr. Rohan Sharan, Founder of Time Chain Labs
Students Attended: 43 Students

Expert Session on “Deep Dive into Blockchain”
Rohan Sharan, Founder of Time Chain Labs

Outcome:

- Students got Blockchain Technology applications in real time.
- Students got Blockchain implementation and development.



Faculties with Mr. Rohan Sharan



Expert Session on Deep Dive into Blockchain Application and Development

Expert Session Aptitude

Day: 3rd February 2023

Speaker: Ms. Anuja Mudak (Giri's Tech Hub Trainer) – Three Months Training

Students Attended: 73 Students

Type of Activity: Aptitude Session

Outcome:

- Students got the case analysis in depth.
- Students got different directions to get a solution.
- Students understood the importance.



Principal Prof. (Dr.) Suresh N Mali and HOD Prof. (Dr.) Alpana P Adsul, addressing the students.



Session Expert Ms. Anuja Mudak addressing TE Computer Engineering students.

C-Language for Industry

Day: 4th February 2023

Speaker: Mr. Pravin Gaikwad and Mr. Ranveer (Giri's Tech Hub Trainer) - Three Months Training

Students Attended: 64 Students

Type of Activity: C Language Session

Outcome:

- Students got C – Language knowledge in depth
- Students got different directions to get a solution.



Expert Session on “C Language” by Mr. Pravin Gaikwad at Seminar Hall.



Hand-on training on “C Language” by Mr. Ranveer at Data Analysis Lab.

Core Java

Mr. Pravin Gaikwad thought about Core Java and Object Oriented Programming language to TE Computer students as below;

- During Session he explained object oriented programming importance.
- Different types of class declaration and object creation.



Expert Session on Core Java by Mr. Pravin Gaikwad for TE Computer Students.

Outcome:

- Students got basic knowledge of object oriented programming language.
- Students got different applications of Java.

Web Technology Session

Expert session on Servlet by Mr. Rahul Shirsath thought to TE Computer Engineering students as below;

- Servlet life cycle.
- URL rewriting along with examples.
- How many stages are included in Servlet life cycle?

Department of Computer Engineering



Expert Session on Servlet by Mr. Rahul Shirsath for TE Computer Engineering students.

Outcome:

- Students got knowledge to create dynamic web page using Servlet.
- Students got strong knowledge of Servlet life cycle and URL rewriting.

JavaScript Session

Mr. Rahul Shirsath thought about JavaScript form validation to TE Computer students as below;

- During Session he explained form validation by JavaScript function.
- He explained different data types of form validation.



Expert Session on Web Technology by Mr. Rahul Shirsath.

Outcome:

- Students acknowledged a complete knowledge form validation.
- Students successfully implemented different data types of form validation using JavaScript.

Training & Placement Process – Session

Mr. Rooshad Mestry, Trainer has taught following concepts to second year computer engineering students:

- Statistics based problems like Probability, Histograms, Graph based, table based, Percentage, average calculation, etc.
- Questions were solved based on Table. Formulas to solve such problems were explained by him.



Expert Session on Statistical problem solving by Mr. Rooshad Mestry.

Outcome:

- Students have learned tricks to solve statistical problems.
- Students have learned formulas to solve table based problems.

Decoding Web3.0 & Its Opportunities

Mr. Saurabh Suranse, ActualOne has guided TE computer students on different opportunities in user interface that provides access to documents, applications and multimedia on the internet. He guided BASE protocol decentralized financial applications



Web3.0 Committee with guest Mr. Saurabh Suranse, ActualOne.

Opportunities in Web3.0

Miss. Almas Sayyed has guided TE computer students on unique features of Web3.0 and how it connected to AI, Semantic Web, 3D graphics, Ubiquity, Peer to Peer network. Students became aware of applications and career opportunities.



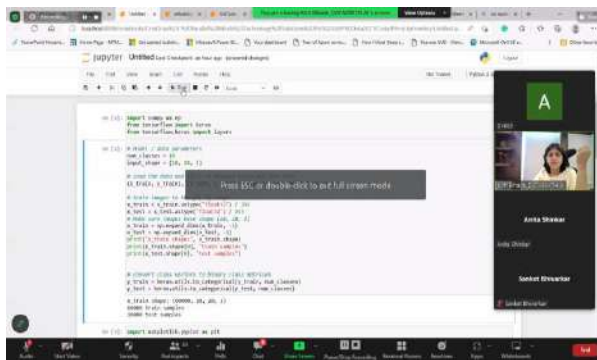
Twitter Launch Web3.0 (@web3dy) / Twitter Decoding Web3.0 & Its Opportunities

Machine Learning and Deep Learning

Online expert session on the topic “Machine Learning and Deep Learning” for the BE students on 10th March 2023 under the guidance of Head of the department Prof. (Dr.) Alpana Adsul. Session started with welcoming and expert introduction given by Prof. Poonam Deokar, Assistant professor, DYPCOEI, Varale.

The session was taken over by expert Mrs. Kirti Bihade started talk about introduction about machine and deep learning difference and the applications of deep learning is found almost everywhere like in the field of media and entertainment, security and defense, medicine and biology and so on. She explained the Real time use cases like, Recommendation Systems, Prediction based on history (Real Estate), Iris data use etc. She continued the talk with the Machine Learning Techniques

- Regression
- Classification
- Clustering



Hands on Demo example on Deep Learning by Mrs. KirtiBihade.

Department of Computer Engineering

Industrial Interaction CoinDCX – Pune Local Chapter

Department of Computer Engineering students Swanand Chaudhari, Abhishek Khairnar, PrernaThul, Shivani Ambesange participated as Volunteers along with Mr. Rahul Jogender Misra, TPO at CoinDCX Pune Local Chapter on 25th February 2023.

Various field Experts given speech about latest technologies.

Ms. Almas S, Digital Marketing Generalist, CoinDCX Pune Chapter Lead, Web3 Product enthusiast, Ex-Infosys. She’s hosted event based on NFT Domain Names & Their Use Cases at DevXBaner, Pune.



Expert speech on CoinDCX on 25th February 2023.

Mr. Akash Yadav, Computer Engineer, Full Stack Web Developer, Cyber Security Intern and also Crypto Enthusiast. He explained what is NFT and what the use cases are.

Mr. Yash Jhade, Startup founder and has been managing multiple social communities across the

Internet for 8 years now. He took a session about the existing and future use cases of web3 domains at CoinDCX's Pune meetup.

Mr. Roshan Vadassery, TEDx Speaker, micro-avehicle specialist, @prmsnls.xyz PR member. He delivered an inspiring and informative presentation on NFT domain names.



Expert speech on CoinDCX.



Students with Mr. Rahul Jogender Misra, TPO at CoinDCX Pune Local Chapter.



Campus Connect Program by Infosys Association

Department of Computer Engineering Head Prof. (Dr.) Alpana P Adsul and TPO Mr. Rahul Misra initiated campus connect program by Infosys on 11th April 2023.



Prof. (Dr.) Suresh N Mali, Principal DYPCOEI along with Mr. Akash Gurubhetti, Mr. Sanket Bari, Mr. Vinay Vasanth, and Ms. Lalita Bhangare, Infosys, Pune.

Our guest Mr. Vinay Vasanth introduced about campus connect program. He explained how to use Springboard and discussed various internship programs provided by Infosys.

Ms. LalitaBhangare introduced quiz portal to our students. Along with courses available on springboard and their certifications.

Mr. Akash Gurubhetti about goal setting, progress dashboard and benefits of certifications in career development.

Mr. Sanket Bari guided our students about Oracle cloud. He explained about how and why cloud is beneficial in web development.

Use of MERN stack in web development is also explained by Mr. Sanket Bari.

He informed to students will do their certifications sincerely with maximum count, then Infosys will allow Industrial Visit to Pune campus.



Faculties and Students were attending the Campus Connect Program by Infosys

Outcome:

- Students as well as faculties became aware of Springboard, its courses and certifications.
- Faculties got the useful information on FDPs provided by Infosys.
- Students were understood use of certifications provided by Infosys and how they can use same for InfyTQ.



Campus Connect Program Infosys Team with DYPCOEI faculties.

Department of Computer Engineering

Google Cloud Community Day 2023



Prof. (Dr.) Alpana Adsul, HOD Computer Engineering, Mr. Rahul Misra, TPO, Prof. T. Arivanantham, Prof. Snehal Mangale along with Second Year Engineering students were attended Google Cloud Community Day 2023 meet at Buntara Bhavana Banquet Hall and Auditorium in Pune.

Cyber Shiksha & Cyber Suraksha – Quick Heal



On behalf of DYPCOEI, Varale facilitated Mrs. Anupama Katkar, Chairman Quick Heal Foundation & Chief of Operational Excellence Quick Heal Technologies Ltd. by Prof. (Dr.) Alpana Adsul & Raj Kashid, SE Computer Engineering Student with Mr. Rahul Misra, TPO.

Parent – Teacher Meet

Activity to share thoughts among the stakeholders

Department of Computer Engineering and Department of Artificial Intelligence and Data Science of Dr. D. Y. Patil College of Engineering & Innovation, organized Parents Teachers Meeting on 17th February 2023. The main objective of the Parent-Teacher meet was to establish a forum for teachers and parents to discuss student performance and come up with ideas for enhancing their educational opportunities. The class instructors and teacher guardians informed the parents about the meeting well in advance through Class teachers and Teacher Guardians.



Welcome address by Prof. Pratima Chougule.



Parents are doing registration at Registration Desk.

Department of Computer Engineering

Activities during the event:

The event started at 11:00am. The welcome address by Prof. Pratima Chougule kicked off the programme.



Saraswati puja on PTM.

PTM Works as a strong connection and communicator between teachers & parents. We can make the teaching, learning process interactive so that the students will be actively involved and the results will be all round development of the students. Prof. (Dr.) Alpana Adsul, Head of Computer Engineering, and Prof. (Dr.) Latika Desai, Head of Artificial Intelligence and Data Science Engineering, introduced parents with the Vision and Mission of the institute and department and the departmental activities along with attendance criteria (75% Mandatory), focus on quality education, library facilities, Training and placement sessions and general criteria for the placements. H.O.D.'s of both the departments also highlighted the Institute's best practice for effective teaching learning process and how it helps placement and higher studies. Second-year

student Pratham Kadam presented his opinions. Following that, Mr. Pradeep Kadam, one of the parents, shared his views.



Pratham Kadam parent speech at PTM.

Then, parents interacted one to one with the faculties. The professors provided specific guidelines and suggestions for each student during the meeting with the parents. The guidelines were primarily focused on students' performance in classroom and exams, performance during the Unit Test and preparation for upcoming Semester.



Parents interaction with Dr. Deepali Sale and Prof. Anita Shinkar.

Discussion was focused on student's specific strengths and weaknesses in individual subjects and student discipline in classrooms. Apart from the usual discussion on ward's progress, attendance, improvisation and challenges, Counsellors interacted with parents to make them

award of the ward's current learning process. Parents' suggestions on the interests and learning of their awards were noted.

Outcomes of the event:

Total 24 parents participated in the PTM of AY 2022-23. Parents learned about the institute's rules and regulations and procedures as well as its teaching and learning approaches for the benefit of the students as a whole. The importance of having children participate in all academic activities was emphasized to parents. Parents were grateful for the efforts and one-on-one care offered to each pupil.



Felicitation of Toppers by Parent.

Feedback from Parents:

We appreciate you setting up the parent-teacher meeting. We learned about our child's development through this parent-teacher conference, as well as the areas where the child needs to strengthen. We also learned about the regularity of our ward in lectures through the attendance report.

-Mr and Mrs Pradeep Kadam.

Faculty Achievements
Patent, Awards, FDP & Paper Publication

Prof. (Dr.) Alpana Prashant Adsul, Head, Department of Computer Engineering, Published Patent on “**DESIGN AND PERFORMANCE EVALUATION OF TRANSMITTED REFERENCE ULTRA WIDEBAND RECEIVER**”, Application No – 202321004394.



Dr. Alpana P Adsul, Reviewer on International Conference on IEEE Conference No – 55951

Prof. (Dr.) Alpana P Adsul (HOD – Computer Engg) Regd. No: 1216 has successfully completed Yoga Teacher Training Course on 22nd May 2023 Evaluated and certified to conduct Yoga Level 1 by yogism.



Dr. Alpana Prashant Adsul, Regd. No. 1216

Prof. (Dr.) Alpana P Adsul (HOD – Computer Engg) & Ms. Snehal Mangale, Assistant Professor and T&P Co-ordinator (Computer) were awarded with letters of appreciation, for their role in development of Training & Placements in our Campus by M/s Rubicon.



T. Arivanantham, Smita Londhe, Shital Sungare and Poonam Deokar published a research paper on “**Blockchain Technology Needs in Edge Computing Environment**” in International Journal of Research and Analytical Reviews (IJRAR), January 2023, Volume 10, Issue 1 and available at www.ijrar.org (E-ISSN 2348-1269, P-ISSN 2349-5138).

Prof. (Dr.) Alpana P Adsul and Prof. (Dr.) Latika R. Desai in recognition of your valuable participation in **World Intellectual Property Day 2023** organized by Institution's Innovation Council (IC) & Design Innovation Centre(DIC), Savitribai Phule Pune University, Pune

Prof. (Dr.) Alpana Adsul and **Mr. Vishal Kisan Borate** attended the workshop on “**Implementation of National Education Policy 2020: Industry -Institute Linkage**” organized by JSPM’s Rajarshi Shahu College of Engineering, Tathawade, Pune on 24th & 25th February 2023.

Mrs. Poonam Mangesh Deokar participated in a 5 days Faculty Development Program on “**Deep Learning Application Development Tools and Research**” organized by Dept. of Artificial Intelligence and Data Science, VIIT, Pune held from 28th February to 4th March 2023.

Mr. T. Arivanantham from Dr. D. Y. Patil College of Engineering and Innovation, Pune has successfully completed the One Week Online STTP on “**Quantum Computing and its Applications: Modern Approaches and Practices**” organized by Department of Information Technology, National Institute of Technology Raipur from 27th February to 03rd March 2023.

Mrs. Poonam Mangesh Deokar has participated in One Week Online Faculty Development Program on “**Deep Learning Applications, Tools, Process Design and Development**” organized by the Department of Computer Engineering in association with IIC-MESCOE, an initiative of MHRD’s Innovation cell from 20th to 28th March, 2023.

Prof. (Dr.) Alpana P Adsul, Dr. Latika R. Desai, Prof. Sunil Kumar Yadav and Prof. Priya Sheshrao Dhage from Dr. D. Y. Patil College of Engineering and Innovation, Varale attended the live webinar with the topic “**Understanding Implementing and Practicing OBE for Academic Excellence**” held on 25th May 2023 by Kramah Software Pvt Ltd.

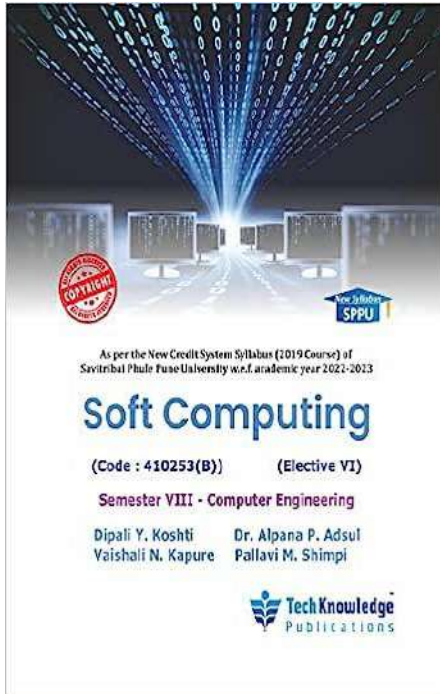
Prof. Vishal Kisan Borate from Dr. D. Y. Patil College of Engineering and Innovation, Varale has participated in one week FDP on “**Research Trends in Data Computing & Machine Learning**” organized by Department of Computer Engineering, PCET’s NMIET, Talegaon, Pune from 22nd to 26th May 2023.

Prof. Sunil Kumar Yadav from Dr. D. Y. Patil College of Engineering and Innovation, Varale participated in **Professional Development Workshop on Digital Creativity Skills** as a part of Adobe Academic Essentials program.

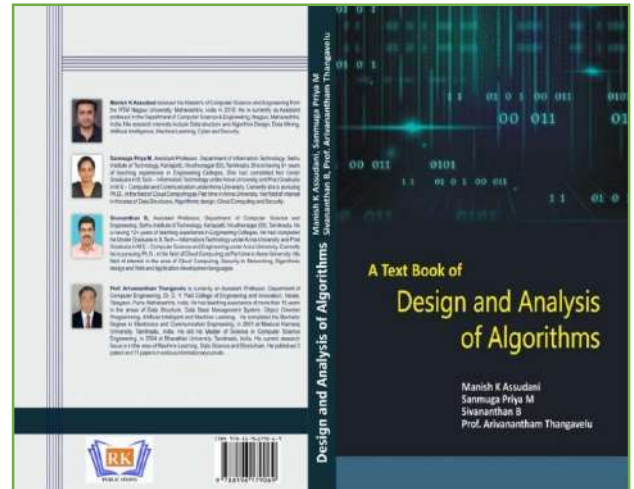


Prof. (Dr.) Alpana Adsul is the Yog Prashikshak member of Indian Yoga Association with unique membership ID: IYA/2023/YP4907.

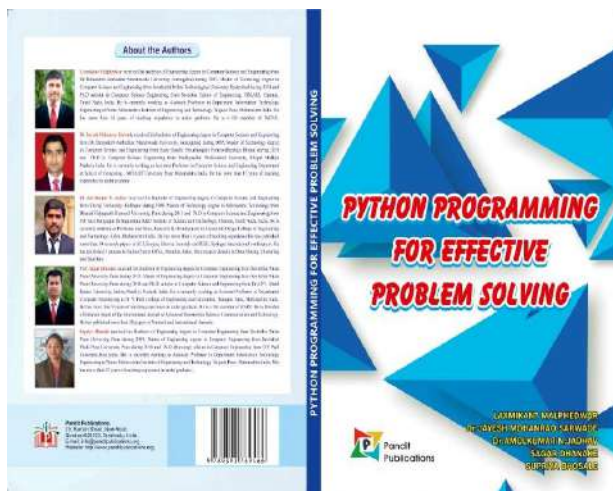
Prof. (Dr.) Alpana Adsul published a book titled **“Soft Computing”** book ISBN: 978-93-5563-390-3 by TechKnowledge Publications.



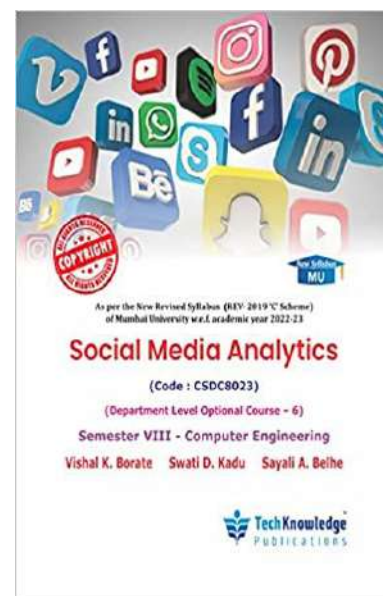
Prof. Arivanantham Thangavelu published a book in title **“The Text Book of Design and Analysis of Algorithms”** book ISBN - 978-81-961790-6-9 by RK Publications.



Prof. Laxmikant Malphedwar and Prof. Sagar Dhanake published a book titled **“Python Programming for Effective Problem Solving”** book ISBN: 978-93-93769-49-7 by Pandit Publications.



Prof. Vishal Kisan Borate published **“Social Media Analytics”** book for Tech Knowledge Publications with ISBN Number:978-93-5563-330-9 with copyrighting content for Semester VIII-Computer Engineering (Mumbai University).



Student Achievement Winning

Mr. Murade Akash Narayan successfully completed with **Elite Silver Certificate** on **“Programming, Data Structures and Algorithms using Python** by **National Programme on Technology Enhanced Learning (NPTEL)**



Prof. (Dr.) Suresh Mali, Principal DYPCOEI Congratulated to Ms. Devika Naik, student of SE Computer Engineering who won a national Award in “KATHAK” All India Dance Competition and will fly to Singapore for international competition.

Short Term Training Program Machine Learning and Its Applications

The one-week short term training program on machine learning and its applications was organized with the aim of providing participants with a comprehensive understanding of machine learning concepts and practical skills in applying machine learning algorithms to real-world problems. The program covered various topics related to machine learning, including the fundamentals, popular algorithms, model evaluation, and applications in different domains organized by department of Computer and Mechanical Engineering of Dr. D. Y. Patil College of Engineering and Innovation from 8th to 12th May 2023.



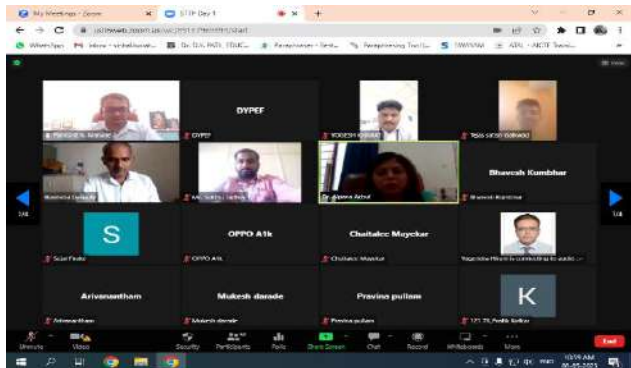
STTP Invitation Flyer

Objectives:

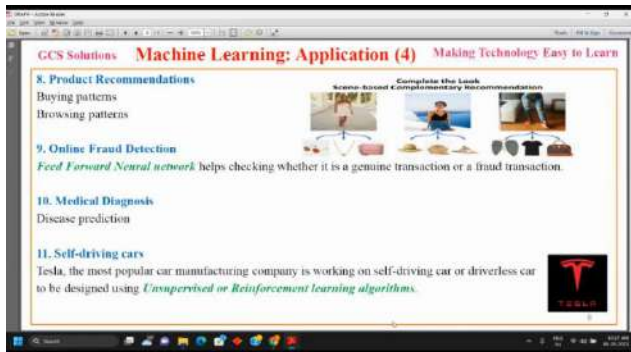
- Introduce participants to the fundamental concepts and principles of machine learning.
- Give insights to popular machine learning algorithms and tools.

- Explore different techniques for data pre-processing, feature selection, and model evaluation.
- Demonstrate the application of machine learning in various domains such as healthcare, finance, and marketing.

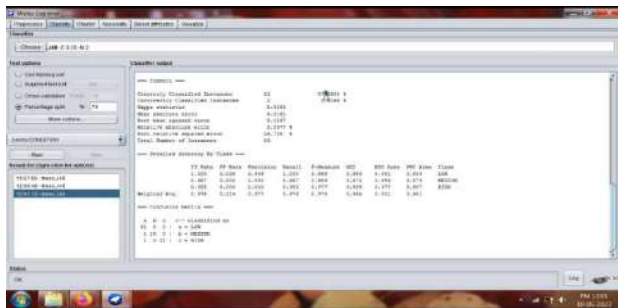
Glimpses:



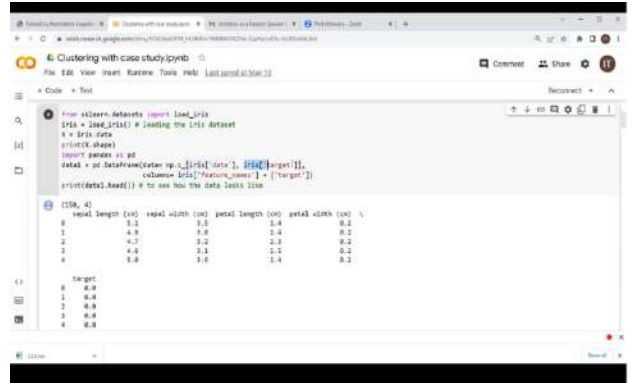
Dr. Parikshit Mahalle, Dean R&D, VIIT, Pune.



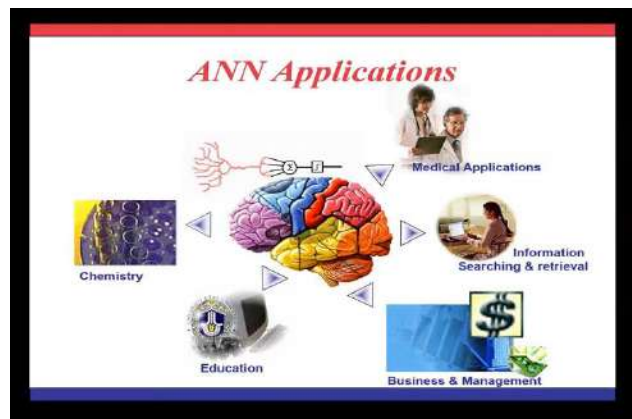
Dr. Sunil Rathod, ICEM, Pune on 9th May 2023.



Dr. Abhishek Patange, COEP Technical University, Pune on 10th May 2023.



Dr. Rakesh Tripathi, NIT, Raipur on 11th May 2023.



Dr. Yogesh Mali, G H Raisoni, Pune on 12th May 2023.

Outcome:

- Enhanced understanding of machine learning concepts and algorithms.
- Hands-on experience with popular machine learning tools and frameworks.
- Practical skills in pre-processing data, selecting features, and evaluating models.
- Exposure to real-world applications of machine learning in various domains.
- Increased confidence in applying machine learning techniques to their own projects.

Glimpses of 2022-23 (Semester – II)

