



Dr. D. Y. Patil	Dr. Sushant Patil	Dr. Suresh Mali
Founder, Dr. D. Y. Patil Group	President, DYPEF	Principal, DYPCOEI

Department of Computer Engineering

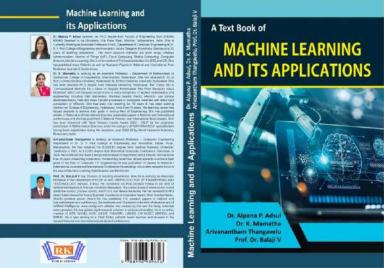
January Month Report:

Faculty Achievement:

Faculty Book Publication

Prof. (Dr.) Alpana Adsul, Head, Department of Computer Engineering and **Mr. Arivanantham Thangavelu** published A Text Book of "Machine Learning and Its Applications" by **RK Publications**, ISBN- 978-81-969396-5-6.

Machine Learning and Its Applications book gives details about Variability, Information and Prediction techniques for the same. Application of Kernel Regression, Computational Comparison and various case studies which helps to perform research in Machine Learning.



Prof. (Dr.) Alpana Adsul is First Author and Mr. Arivanantham Thangavelu is Third Author of Machine Learning and Its Applications book.

Book is available: https://www.flipkart.com/product/p/itme?pid=9788196939656







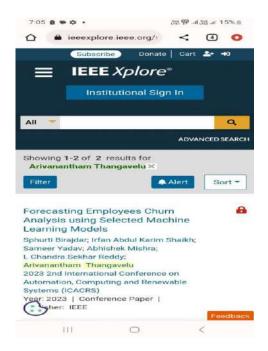
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Faculty Paper Publication

Mr. Arivanantham Thangavelu published a paper on "Forecasting Employees Churn Analysis using Selected Machine Learning Models" in IEEE Xplore.

This paper has information about the context of a business setting, the process of analysing and measuring the rate at which workers leave a company, as well as determining which people are most likely to depart, is referred to as employee churn analytics.

During the course of investigation, the study analysis number of machine learning (ML) algorithms that concentrate on reviewing the history of an employee and evaluating a variety of characteristics in an efficient way. The purpose of these methods is to determine whether or not the employee will continue working for the firm or will at some point in the future depart the business.



Paper is available: https://ieeexplore.ieee.org/document/10404481







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FDP (Faculty Development Program) FROM IDEAS TO ASSETS IN NEP - 2020

Department of Computer Engineering organized offline One Week Faculty Development Program on "**FROM IDEAS TO ASSETS IN NEP – 2020**" from 16th – 20th January – 2024. This FDP comprised of topics like Inculcating Research Culture, NEP in Higher Education, Do's and don'ts of writing an effective research proposal? Identifying Intellectual Property components at the early stage of research, Critical parameters in evaluation of research proposals. Speakers from various pioneering institutions such as COEP Pune, AISSMS IOT Pune, Trinity Academy of Engineering Pune etc. were invited to deliver lectures.



Welcome speech by Prof. (Dr.) Suresh Mali, Principal, DYPCOEI, Varale on 16th January 2024.

Day – 1

(Research Paper Writing)

The first session was on the topic "Research Paper Writing "by Dr. Madhuri Joshi, Former Professor of COEP Pune. In her speech she pointed out attributes to write a good research paper, what should be the basic outline of a good research paper and what is the importance of doing a literature review and what is the right method to do a literature review.







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The session also focused on teaching the participants how important it is to select a journal for getting your research work published. The session was aimed at making the participants develop the basic attribute to write a good research paper.



Dr. Madhuri Joshi, Former Professor of COEP Pune presentation on the topic "Research Paper Writing" on 16th January 2024.

(Basics of NEP-2020)

The Second Session was from Prof. (Dr.) Suresh Mali, Principal DYPCOEI, Varale, Talegaon, Pune. Prof. (Dr.) Suresh Mali has addressed on the Overview of NEP-2020, What is NEP-2020, Background of NEP-2020, Features of NEP-2020, Key recommendations for HEI'S.

He said there are three important things for humans: Education, employability and Employment. In addition to this he has thrown light on the idea of multidisciplinary universities and also Pointed out that NEP 2020 is founded on the five guiding pillars of Access, Equity, Quality, and Accountability. It will prepare our youth to meet the diverse national and global challenges of the and the future. Also pointed out about Higher Educational Institutions Accreditations & Structure in NEP-2020.







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Prof. (Dr.) Suresh Mali, Principal DYPCOEI, Varale addressing during Faculty Development Program on 16th January 2024.

Day - 2

(Research Indexing and Citation)

On day two, the third session was by Prof. (Dr.) Deepali Sale, Associate Professor DYPCOEI, Varale on Research Indexing and Citation. She has been instrumental in diving deep into the prospects of indexing and stressed on the Journal indexing in research serves as a guide for relevant scholarly content and seeks to make the information widely available and easy to access. It can function as an information retrieval tool for libraries and archives. Also emphasized on indexed journals are reliable sources of high-quality research. They can be used for efficient literature searches. Further, when choosing where to publish, authors should prioritize journals that are indexed in several general and specialized indexes to improve the visibility and impact of their work. Also put light on A Web of Science ResearcherID is a unique identifier that connects you to your publications across the Web of Science ecosystem and provides the global research community with an invaluable index to author information. Web of Science ResearcherID to match and disambiguate researchers across products., OrchidId and Impact factor calculation.







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Prof. (Dr.) Deepali Sale, Associate Professor DYPCOEI, Varale addressing during Faculty Development Program on 17th January 2024.

(Increasing Self & Team Awareness by Johari Window Model)

On Third Day the fourth session was taken by Prof. (Dr.) Suresh Mali Principal, DYPCOEI, Varale. He delivered the talk on "Increasing Self-Awareness and Team Awareness (The Johari Window Model).



Prof. (Dr.) Suresh Mali, Principal DYPCOEI, Varale delivered on "Increasing Self & Team Awareness by Johari Window Model on 17th January 2024.

He said, The Johari Window is a framework for understanding conscious and unconscious bias that can help increase self-awareness and our understanding of others.





Web Site: www.dypcoei.edu.in, Email: principal.dypcoei@dypatilef.com



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He also spoke about the four quadrants of the Johari Window include:

Open Area – things that you and others know about you.

Blind Area – things that you know about yourself, but others do.

Hidden Area – things you know about yourself, but others don't.

Unknown Area – things that neither you nor others know about yourself.

The session was very beneficial and provided an insight on the various aspects associated selfawareness and team-awareness. At last he conducted test of participants through Johari Window Questionnaire and discussed individual results.

Day – **3**

(Recent Research Trends in Engineering)

On Third Day the fifth session was taken by Dr. Pramod Deshmukh, Solution Architect, SYGNIUS Infotech, Pune.

He delivered the talk on "Recent Research Trends in Engineering Practical Research Planning and Design". He said, Computer science is constantly evolving & Put glimpses at the latest trends in AI, cybersecurity, bioinformatics, and other developing areas of the field. Also focused on trends like cloud computing, information security, and big data collection and storage contribute to this field's promising outlook.

Also emphasizes on Quantum computers have the potential to solve problems that would take the world's most powerful supercomputers millions of years. Companies including IBM, Microsoft and Google are all in competition to build reliable quantum computers. Which would position quantum computing as one of the most important computer science trends in the coming years.







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Dr. Pramod Deshmukh, Solution Architect, SYGNIUS Infotech, Pune session on "Recent Research Trends in Engineering" on 18th January 2024.

He pointed out Researchers must highlight how these technologies can integrate with social and economic factors in order to present a comprehensive solution to the real-world problems of mankind in every domain of life. Machine learning has become a key element in organizational performance. Organizations are recognizing the need to change from individual heroics to engineered performance in order to move the ML models more efficiently from improvement to production and management. Machine data revolution: Machine learning has been balanced to renovate the operations and decision-making of organizations.



Dr. Pramod Deshmukh, Solution Architect, SYGNIUS Infotech, Pune session on "Quantum Computing" on 18th January 2024.







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Day – 4

(Copyright, IPR, Patents and Innovations)

The sixth session was on the topic "Copyright, Intellectual Property Rights, Patents and Innovations" by Dr. Deepti Patil, Professor Computer Engineering Department of MKSSS's Cummins College of Engineering for Women, Pune. In her speech she pointed out attributes of Copyright, Intellectual Property Rights, Patents and Innovations. The session began with explaining what property is and an individual's right over it, and how intellectual property rights can be clearly understood. Intellectual Property Rights cover the Creation of the human mind, which results from human creativity and innovation. It enables people to earn recognition and earn financial benefits and encourage inventiveness.



Dr. Deepali Patil, Professor & Dean Studetns Welfare, MKSSS's Cummins College of Engineering for Women, Pune session on "Copyright, Intellectual Property Rights, Patents and Innovations" on 19th January 2024.

She also discussed the difference between invention and innovation. The invention refers to the occurrence of an idea for a product or a process that has never been made before, innovation applies the implementation of an idea for product or process for the very first time.







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The Smartphone, the car, the desktop computer are inventions. While Innovation is the continual upgrade of inventions. The Types of IPR are Patent, Trademark, Trade secret, Geographical indication, Copyright, Plant varieties, Design.



Dr. Deepali Patil, Professor & Dean Studetns Welfare, MKSSS's Cummins College of Engineering delivered Geographical Indications in India on 19th January 2024.

Day – 5

(National Education Policy - 2020)

On Last Day, seventh session was taken by Prof. (Dr.) Pradeep Mane, Principal of AISSMS IOT Pune. He delivered the session on "National Education Policy - 2020 in Higher Technical Education".

He said, The NEP-2020 provides a framework for the transformation of the entire Technical Education (TE) in order to respond to the requirements of fast-changing and knowledge-based Indian society. This article provides comprehensive information on the fair and rational system of perspectives of NEP as well as other necessary information on the processes involved in qualitative changes in TE.







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Broadening the scope of TE by bringing in degree and diploma programmes; bringing closer collaborations between industry and HEIs to drive innovation and research; using the technology to overcome the separation between technical education and other disciplines; planning to offer technical education in multidisciplinary education institutions and programmes.



Prof. (Dr.) Pradeep Mane, Principal of AISSMS IOT Pune session on" National Education Policy – 2020" on 20th January 2024.

Additionally, he discussed the breadth of technical education by bringing in a degree and diploma programmes, bringing closer collaborations between industry and HEIs to drive innovation and research, using the technology to overcome the separation between technical education and other disciplines, planning to offer technical education in multidisciplinary education institutions and programmes, and preparing professionals in areas of greatest importance that are fast gaining prominence are just a few indications of NEP-2020 perspectives towards fostering a technical education system in India which is on par with the best institutions in the world.

Vote of thanks was proposed by Prof. (Dr.) Suresh Mali, Principal DYPCOEI, Varale.







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(Research Tools and Methodologies)

On Last Day of FDP, eighth session was taken by Prof. (Dr.) Nilesh Uke, Chairman BOS Computer Engineering, SPPU Pune & Principal Trinity Academy of Engineering, Pune. He delivered the Hands-On session on "Research Tools and Methodologies" to Provide a Handson experience of some tools used in Research. In his discussions, he practically made the participant learned how to excess and use the variety of research tools for the research.



Prof. (Dr.) Nilesh Uke, Chairman BOS Computer Engineering, SPPU Pune & Principal Trinity Academy of Engineering, Pune session on "Research Tools and Methodologies" on 20th January 2024.

Additionally, he demonstrated about research tools for searching literature, tools for survey. The session was full of learnings, and all the participants relished the content delivered to them. The deliberation focused on the recent research tools. He explained importance of Perish tool, google scholar also give insights about Orchid Id, Researcher Id-Publons. He told about citation manager tools working like Endnote, Jabref. Gave reference about Mendeley. Mendeley is a free online tool that helps you search, store and cite your research papers. You can access your library from any device, generate references in various formats.







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He gave emphasizes on VIDWAN and explained that is the premier database of profiles of scientists, researchers and other faculty members working at leading academic institutions and other R & D organization involved in teaching and research in India. It provides important information about expert's background, contact address, experience, scholarly publications, skills and accomplishments, researcher identity.

Valedictory Function:

The valedictory function was graced by Prof. (Dr.) Nilesh Uke, Chairman BOS Computer Engineering and Principal Trinity Academy of Engineering, Pune, Prof. (Dr.) Suresh Mali, Principal DYPCOEI, Prof. (Dr.) Alpana Adsul, HOD Computer Engineering & Vice Principal DYPCOEI, Prof. (Dr.) Latika Desai, HOD AI & DS. The Faculty Development Program was concluded followed by Valedictory function. The many dignitaries who graced the FDP.



Prof. (Dr.) Suresh Mali, Principal DYPCOEI falicitating Prof. (Dr.) Nilesh Uke, Chairman BOS Computer Engineering, SPPU Pune & Principal Trinity Academy of Engineering, Pune for Valedictory function on 20th January 2024.

Vote of thanks was proposed by Prof. (Dr.) Suresh Mali Who addressed the gathering by Thanking all eminent speakers who delivered session during wonderful FDP and congratulated all the participants for attending the FDP.







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Later certificate distribution to the participants was done by Prof. (Dr.) Nilesh Uke, followed by the feedback of the participants taken regarding the 5 days FDP. One assignment was assigned to all participants based on sessions conducted during FDP specially designed by patron Respected Prof. (Dr.) Suresh Mali on inputs of speakers. Finally, he declared End of FDP by Heartfelt Thanks to Honorable. Dr. Sushant Patil, President, DYPEF and Respected. Mrs. Anuja Patil, Secretary, DYPEF, Convener Prof. (Dr.) Alpana Adsul, FDP coordinators Mr. Laxmikant Malphedwar & Mr. Chandan Wagh to all the members of organizing committees, participants, supporting teaching and non-teaching staff of DYPCOEI, Varale for successful conduction of One Week FDP.

World Hypnotism Day Improving Learnability with the help of Hypnotherapy

Department of Computer Engineering organized expert session on "Improving Learnability with the help of Hypnotherapy" by Mr. Nawnath Gaikwad, Hypnotist, Clinical Hypnotherapist and Mind Coach and Mr. Atul Joshi, GD Member of DYPCOEI, Hypnotist, Clinical Hypnotherapist and Mind Coach on World Hypnotism Day, 4th January 2024.



Lamp Lightening by Mr. Atul Joshi, GD Member of DYPCOEI, Hypnotist, Clinical Hypnotherapist and Mind Coach on 4th January 2024.







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Expert session on "Improving Learnability with the help of Hypnotherapy" by Mr. Nawnath Gaikwad and Mr. Atul Joshi shown hypnotherapy technics to students.



Prof. (Dr.) Suresh Mali, Principal felicitating the speaker Mr. Nawnath Gaikwad, Hypnotist, Clinical Hypnotherapist and Mind Coach.

Mr. Nawnath Gaikwad and Mr. Atul Joshi explained four stages of hypnosis: induction, deepener, suggestions and emergence

Induction: During this stage, you begin to relax, focus your attention and ignore distractions. Your hypnotherapist will guide you through this stage with specific techniques such as controlled breathing (breathing in over a count of seven, then breathing out over a count of 11), or progressive muscle relaxation (tensing muscles as you breathe in and relaxing muscles as you breathe out, then repeating in a certain order of muscle groups throughout your body) or focusing on a visual image.

Deepener: This stage continues the first stage, taking your relaxation and focus to a deeper level. This step often involves counting down or using similar descending imagery such as walking down stairs or slowly sinking deeper and deeper into a comfortable bed. These first two stages are aimed at easing your openness to suggestions.

Suggestions: This is the stage for actual change in experience, behaviour or perception. Your hypnotherapist will use imagery and carefully chosen language.







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The suggestions are usually symptom focused (to resolve a symptom) or exploratory (to explore experiences associated with the start of symptoms). Suggested changes may be in perception, sensation, emotion, memory, thought or behaviour.

Emergence: During this stage, you come out of hypnosis. Your hypnotist may use reverse deepeners, such as giving you the suggestions that you're climbing up stairs or counting up.



Mr. Nawnath Gaikwad, Hypnotist demonstrated Hypnotherapy on stage with students and faculties.

How Hypnotherapy Works: The majority of the enormous promise found in the mind of humans is

still unrealized. Like an iceberg, 90% of the contents of the mind are hidden. The conscious mind, which makes up 10% of the visible brain, aids in reasoning, short-term memory, and environmental perception. The subconscious mind makes up the remaining 90% and is in charge of things like emotions, taught behavior, long-term memory, and learning. Recollections and related feelings are stored in the subconscious mind. This facilitates the mind's process of "learning" how to feel and act in specific circumstances. It even affects the conscious thought process. Our current thoughts and actions are influenced by our past experiences and memories.







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Mr. Atul Joshi, GD Member of DYPCOEI, Hypnotist Mind relax technics taught to spectators.

Good mental health, mental serenity, self-assurance, right thought, constructive habits, feelings, and conduct are all dependent on how well this subconscious mind is functioning. The less or no conflicts in this subconscious mind's maturation, the better ordered it is. However, conflicts resulting from disorganization brought on by inadequate learning or traumatic events can lead to unwanted conduct or worse mental functioning. Here's where hypnotherapy can be useful. It facilitates a more effective restructuring of subconscious minds, which gets rid of bad learning habits, conflicts, and old traumas. It extracts undesirable feelings and behaviors from memory and substitutes them with positive feelings and actions. Positive thoughts, constructive feelings, and desired conduct are the results.

The session success is everyone learnt some basic technics of how to remove phobias and bad habits using hypnotism 76 students and 32 faculties participated the session and learnt how to reduce anger and anxiety.

Prof. T. Arivanantham Coordinator

Dr. Alpana P. Adsul Head, Computer Engg



Dr. Suresh N. Mali Principal