

SHRI VILE PARLE HELAVANI MANDAL'S

SHRI BHAGUBHAI MAFATLAL POLYTECHNIC



Symbian Tales

DEPARTMENT

INFORMATION TECHNOLOGY

2021-22



Shri Vile Parle Kelavani Mandal's Shri Bhagubhai Mafatlal Polytechnic

SVKM

Shri Bhagubhai Mafatlal Polytechnic, Irla, N. R. G. Marg,
opposite Cooper Hospital ,Vile Parle (W),Mumbai, Maharashtra 400056



INFORMATION TECHNOLOGY DEPARTMENT

Symbian
Tales



Information
Technology



SHRI VILE PARLE KELAVANI MANDAL'S

SHRI BHAGUBHAI MAFATLAL POLYTECHNIC



ABOUT SVKM

Shri Vile Parle Kelavani Mandal is a Public Charitable Trust registered under the Society's Registration Act and Bombay Public Trust Act. From its humble beginnings in 1934, when it took over the Rashtriya Shala, a school established in 1921 in the wake of the National Movement, the Mandal today has grown into a big educational complex imparting high-level education to more than 35,000 students. Over the past 80 years, the Mandal has developed a large educational complex in various places and SVKM today is proud of some of the finest educational institutes in the country like NMIMS deemed to be University, D.J. Sanghvi College of Engineering, Bhagubhai Mafatlal Polytechnic to name a few.

ABOUT SBMP

S.B.M. Polytechnic has created a name for itself by maintaining high standard of discipline and performance. The Polytechnic believes in organising need-based programmes and assisting in-service personnel in education and training activities. The Polytechnic has developed Sandwich Programmes and has diversified its conventional programmes initiated in 1963 into variety of discipline areas as First Level as well as Post-Diploma Level along with in-service programmes. The Polytechnic is a grant-in-aid autonomous institution affiliated to the Maharashtra State Board of Technical Education. The Polytechnic is being managed by the duly constituted Managing Council.



SHRI VILE PARLE KELAVANI MANDAL'S

SHRI BHAGUBHAI MAFATLAL POLYTECHNIC



VISION

SBM Polytechnic aspires to be the lead institute in providing need based technical education.

MISSION

- To provide state-of-the-art infrastructure and latest equipments for providing a stimulating learning environment.
- To prepare students to meet the dynamic needs of the industry by periodic reviewing and upgradation of curriculum through an interactive process with industry.
- To inculcate a spirit of excellence in terms of academic performance, research and innovation in faculty by providing appropriate support and incentive systems.
- To promote and support Co-Curricular, extra-curricular activities and industry interaction to make students socially sensitive and employable.

OBJECTIVES

1. Over the years, objectives of S.B.M.P. have been to initiate, develop and conduct need-based programmes so as to develop Technical, Managerial and Entrepreneurial skills.
2. S.B.M. Polytechnic aims at upgrading and updating qualification skills and knowledge of technicians already working in the industry through Continuing Education Programmes and Part Time Diploma Programmes.
3. S.B.M. Polytechnic's mission is to establish and provide a comprehensive, full equipped training facility in advance technological fields and to cater to industry needs of specialized skills in the emerging high-tech areas



SHRI VILE PARLE KELAVANI MANDAL'S
SHRI BHAGUBHAI MAFATLAL POLYTECHNIC
DEPARTMENT OF INFORMATION TECHNOLOGY



VISION

To create a learning environment that nurtures students and transform them into competent IT Diploma Graduates.

MISSION

- 1. To impart technical and managerial skills for pursuing academic excellence through dynamic learning environment.**
- 2. To foster industry ready graduates by acquiring and utilizing latest technology.**
- 3. To strengthen holistic development and Professionalism in the Diploma graduates.**



SHRI VILE PARLE KELAVANI MANDAL'S

SHRI BHAGUBHAI MAFATLAL POLYTECHNIC

DEPARTMENT OF INFORMATION TECHNOLOGY



PROGRAM EDUCATIONAL OBJECTIVES

After successful completion of the program students will be able to:

1. Imbibe core knowledge and utilise associated technologies to provide domain related solutions.
2. Be capable of adapting to the rapid pace of technological dynamics through professional competence.
3. Develop a holistic personality equipped with leadership qualities, team skills and humane approach towards society.

PROGRAM SPECIFIC OUTCOMES

1. Students will demonstrate fundamental knowledge in core domains of IT such as Software Development, Databases and Information Systems
2. Students will acquire skills that can provide IT solutions in the field of Networking, IOT, Machine Learning and Cloud Computing.



SHRI VILE PARLE KELAVANI MANDAL'S
SHRI BHAGUBHAI MAFATLAL POLYTECHNIC
DEPARTMENT OF INFORMATION TECHNOLOGY



Dr. M.Z. Shaikh
Principal of SBMP



Mrs. Neeta Kadukar
Vice-Principal of SBMP &
HOD of IT Department



Abhijit Dongaonkar
Lecturer



Swapna Naik
Lecturer



Radhika Patwardhan
Lecturer



Manish Solanki
Lecturer



Krishna Bhatt
Lecturer



Pankaj Rathod
Lecturer



Abhilasha More
Lecturer



Neha More
Lecturer

INFORMATION TECHNOLOGY

DEPARTMENT OF SHRI BHAGUBHAI MAFATLAL POLYTECHNIC



EDITOR: Mrs. Swapna Naik

COORDINATOR: Mr.Pankaj Rathod, Mrs.Reshma Rane

STUDENT COORDINATOR: Mst.Ayush Vora, Ms.Rashmi Kamdar,

SBMP 2022

SYMBIAN TALES

February to August 2022

What is Artificial Intelligence ?

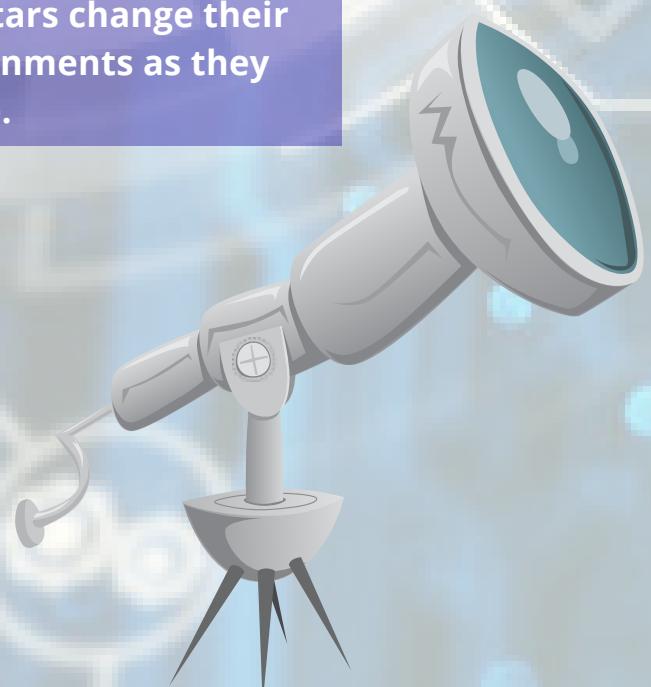
Artificial intelligence is the simulation of human intelligence processes by machines, especially computer systems. Specific applications of AI include expert systems, natural language processing, speech recognition and machine vision.



With Artificial Intelligence, machines perform functions such as learning, planning, reasoning and problem-solving. Most noteworthy, Artificial Intelligence is the simulation of human intelligence by machines. It is probably the fastest-growing development in the World of technology and innovation.

James Webb Space Telescope.

The second star is surrounded by dust while the brighter star, at an earlier stage of evolution, will release its own cloud of gas and dust later on. As the two stars orbit one another, they effectively "stir" the gas and dust, resulting in the patterns seen in the image. The insights from images like this could help astronomers to unlock how stars change their environments as they evolve.





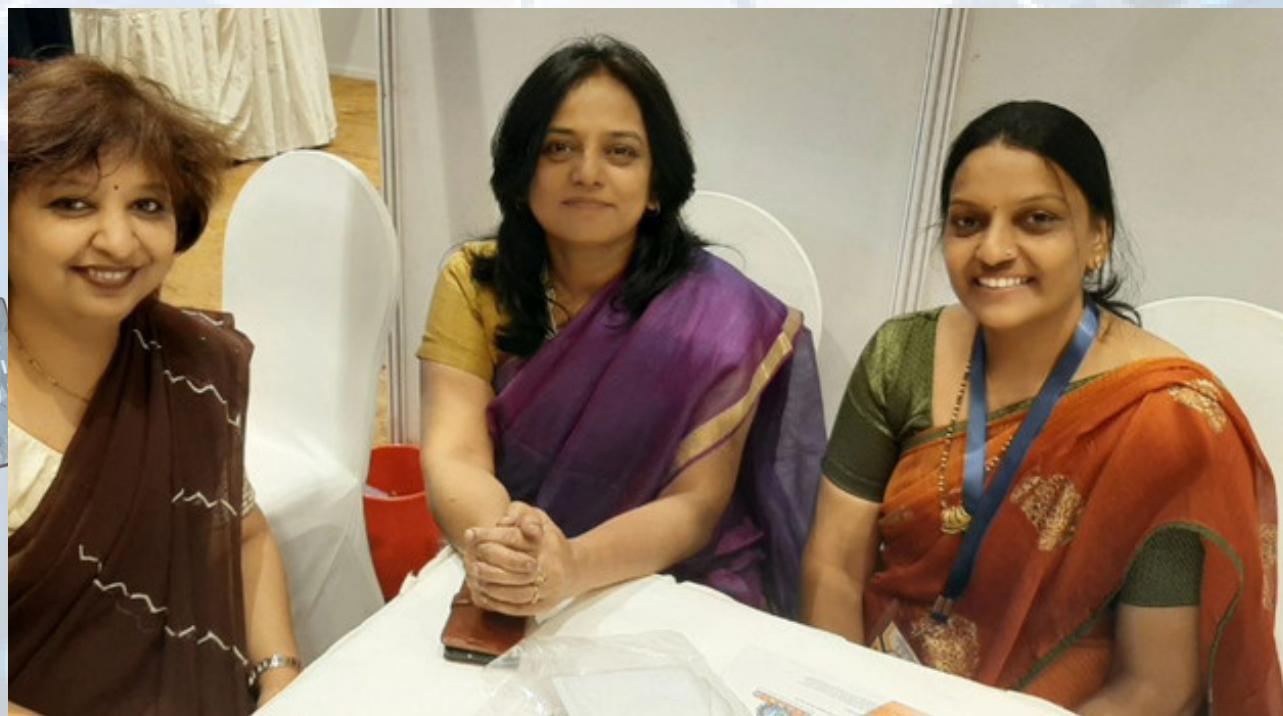
Fond Memories



A WALK DOWN THE MEMORY LANE

This is us bidding goodbye to our guide mentor and the founding member Information technology department

Mr Y. I Shah.





Fond Memories

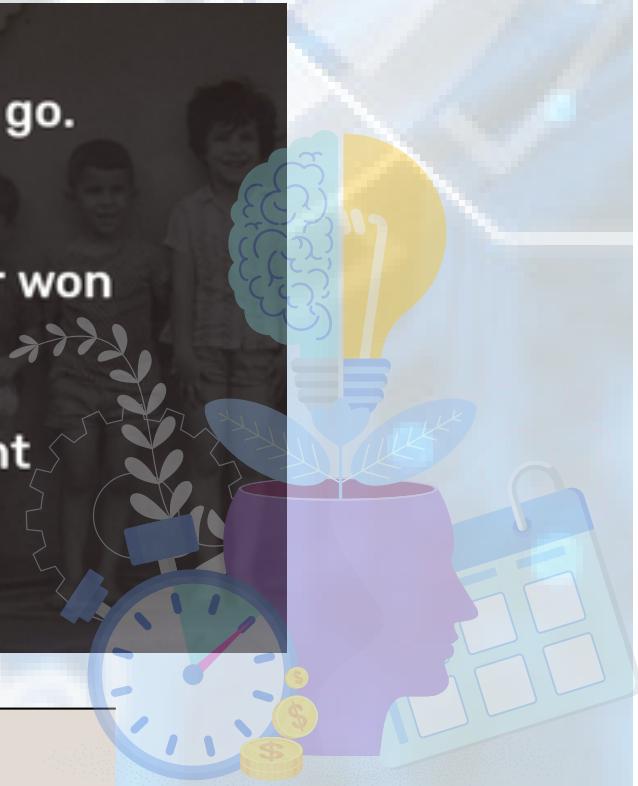
First batch of Information
technology

Learning to let go is fine
But then life is not simply to let go.

Memories are there
To remind us of something lost or won
Time flows like a water
Days never standby
Memories capture the moment
And stays forever in life

MEMORIES NEVER DIE.

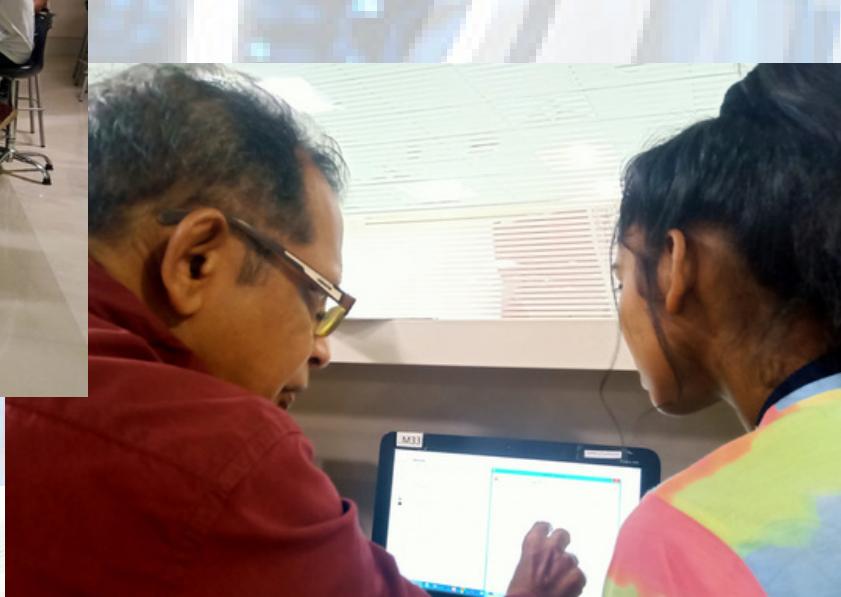
"MULTICON AND ALUMNI MEETA AT SBMP"





The LIGHTHOUSE- EXPERT SESSION

An expert session is one of these meeting design formats that require a bit more attention when planning. However, it can deliver outstanding results for both you and your guests.



The amazing thing about these expert sessions is the energy and engagement involved. The participants are active co-creators of the narrative and are free to deliver their own expertise.



EXPERT SESSION

What is an expert session? As an event practice, expert sessions refer to a 60-minute dynamic that presents a topic (explained by an expert) and engages the entire (usually small) audience in the process of identifying the problem and then finding a solution.

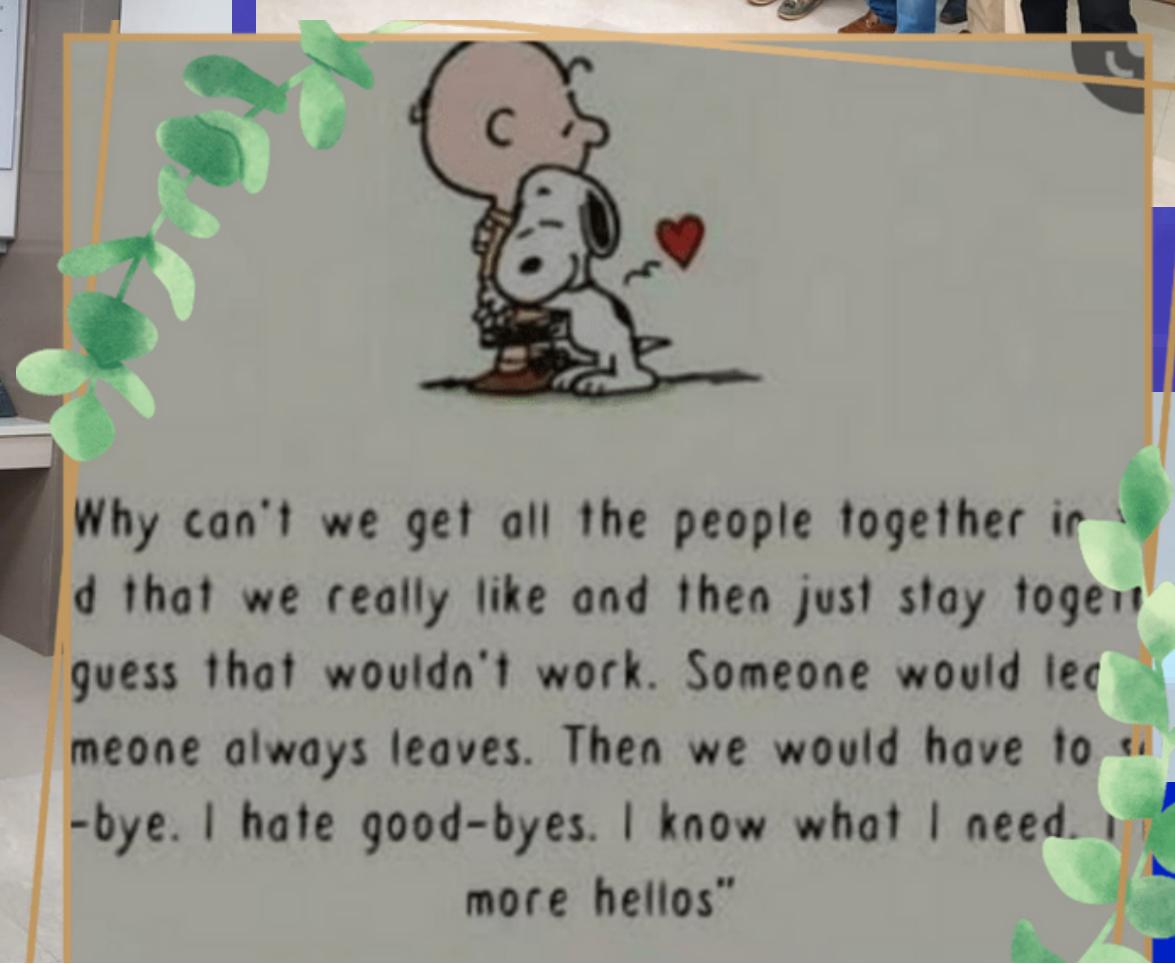


Apart from that, this technique provides massive value in the sense that attendees can learn practical solutions and actually be able to apply them.



SOME GOODBYE FOR GOOD PEOPLE

Staff Lab assistant, Mrs. Aparna resigned from the Information Technology department for personal reasons after 18 years of service. We wish her a happy, successful life ahead .We shall all miss her.





SOME GREAT INTERACTIVE SESSIONS

Patience. Every student will have their own unique struggles. Some will have a difficult time reading. For others, math will not come easily. For others, being able to sit still during school is the struggle! Patience in a teacher is key to helping students overcome their struggles. With large classrooms and many students who are all different, patience is a must for a good teacher. And, demonstrating patience as a teacher is a great way to be a role model to students. Patience is an important characteristic of effective teachers in both practice and as a model.

Empathy. Empathy is an important quality of teachers. Children and youth have big feelings and are often dealing with more than we know outside the classroom. As a teacher, it's important to be able to empathize with what they are feeling, even if it may not seem like a big deal. Children and youth need to have their emotions validated in order to understand and process them well. This is crucial in helping them become emotionally mature. Teachers who aren't empathetic can't help students overcome real difficulties, trivial or severe. As a teacher, it's vital to be able to put yourself in a student's shoes and help them feel understood. When you teach, it's important to be sensitive and thoughtful to make sure the learners feel they're in a safe environment.



Beach Cleaning



MOTIVATION+

- Cleaning the beach also improves the coast and ocean ecosystem by ensuring that none of the trash kills marine life or is toxic enough to disrupt the aquatic life cycle. A beach cleanup is also an opportunity to gather new data about the state of our coasts and the types of trash that pollutes them.

BENEFITS

Thousands of marine animals worldwide have been affected by plastic pollution, including sea turtles, seabirds, and marine mammals. Therefore, Beach cleanups are vital to mitigate the problem caused by ocean debris and the danger that plastic pollution poses to marine life.





Agro Drone



This project focused on building a drone for hovering over the gigantic crop fields and capturing the images and video of the fruits and vegetables then cropping just the image from the entire image. This project will ease the farming life by saving the time and efforts of the farmers to go to each and every plant and analyse the fruit or vegetable. Whenever the farmer wants the view of the entire farm, he has to just turn on the drone and that's it now he will get the video. Also, the drone will focus on capturing the trespassing of any animal or people as it is not possible for a single farmer to keep an eye on the entire farm at once. The drone will also fly to its predefined flight path to capture the video to perform the analysis on it.

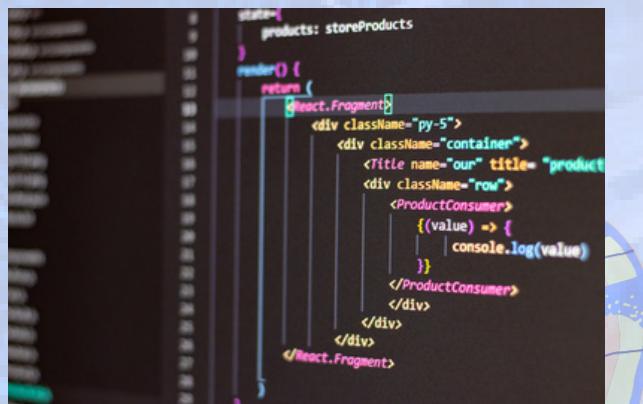
The video captured through the drone is converted into data using the yolo deep learning model. As we know that in today's world data is very expensive and useful for making decisions for the organization, training deep learning, ML models or can be simply sold for making profit. This data is also highly beneficial for researchers and Machine learning enthusiasts to build and train their own models which assist in growth and development of the organization as well as the machine learning community.



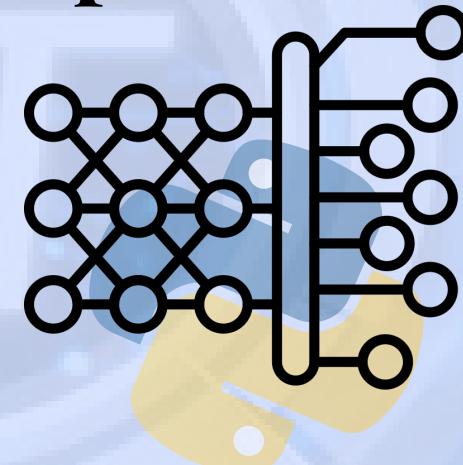


Project Modules

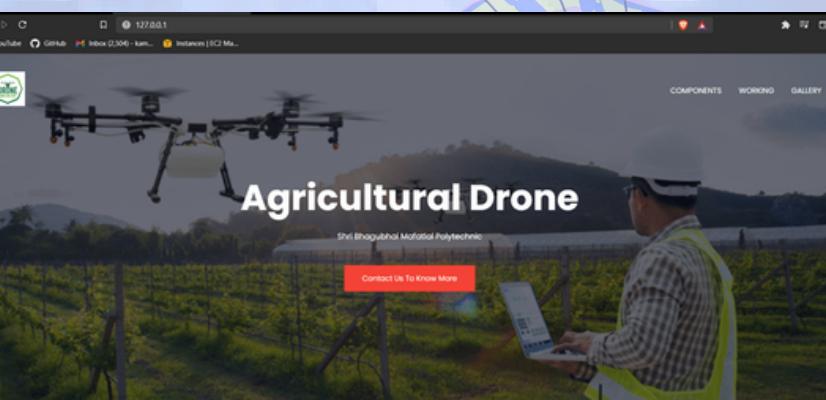
Flight Automation



Deep Learning



Web UI



IoT module





Achievements & Awards



TECHNOPRO 2022



TechnoPro(State Level)

Hosted by Thakur polytechnic on 7th May 2022. It was a state level competition which was attended by more than 80 teams. We secured first consolation prize in the event. The event was held offline at thakur polytechnic, Kandivali. There were many projects which ranged from various applications, IoT projects, Computer vision projects, machine learning, mechanical machines, etc.



Ideathon – University of Solapur

Hosted by punyashlok ahilyadevi holkar Solapur university on 5th June 2022. A total of 16 teams were selected out of 49 based on the ideas which were submitted in the first round of selection. We secured first place in the competition which was held in a hybrid mode.



RESEARCH PAPERS

INTERNATIONAL JOURNAL OF ADVANCED RESEARCH IN
SCIENCE, COMMUNICATION AND TECHNOLOGY



CERTIFICATE OF PUBLICATION

INTERNATIONAL STANDARD
SERIAL NUMBER
ISSN NO: 2581-9429

THIS IS TO CERTIFY THAT

Rashmi T. Kamdar

Shri Bhagubhai Matatali Polytechnic, Mumbai, Maharashtra, India

HAS PUBLISHED A RESEARCH PAPER ENTITLED

Exploring Health Care Sector using AI with IoT

IN IJARST, VOLUME 12, ISSUE 1, DECEMBER 2021

Certificate No: 122021-A047
www.ijarst.co.in



DOI: 10.48175/IJARST-2157
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ISSN (Online): 2581-9429

Volume 12, Issue 1, December 2021

Exploring Health Care Sector using AI with IoT

Pankaj D. Rathod¹, Rashmi T. Kamdar², Het J. Shah³

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Abstract: The new progresses in the Internet of Things (IoT) and Artificial Intelligence (AI) changed the traditional medical care from manual to intelligent medical care. By introducing key innovations, for example, IoT and AI, clinical processes can be improved. The interlinking of IoT and AI offers various freedoms in the medical care area, the current survey article presents IoT and AI innovations in various fields. Like AI and IoT are utilized to recognize infections at introductory stages, keeps record of the relative activity of exercises, is extremely useful at the hours of crisis, deals with physical just as psychological wellness. It will likewise save a ton of cost and will be utilized for enormous scope.

Keywords: Artificial Intelligence(AI), Interlinking, Internet of Things (IoT), Medical Care, Clinical Benefits, Psychological Wellness, Enormous Scope.

L INTRODUCTION

In this, you will find out what Artificial Intelligence is, how IoT (Internet of Thinking) with AI helps achieve better results. Also, a brief informative relationship between AI, IoT, and the healthcare industry. Due to the Covid19 pandemic, ordinary people faced many problems in their working life. It was found that around 70% of people tested positive in December 2020, a situation that created various challenges in the health sector. Many advanced IoT devices have been introduced to achieve precision, get correct test results, and diagnose the patient at an effective level. AI and IoT can improve network performance to effectively respond to Covid19[1] and just like Covid19 but other global epidemics as well.

A) Artificial Intelligence

To take care of any issue, we take help of our mind, yet consider the possibility that sometimes the brain can't choose the answer for tackle an issue. For this, we want programmed knowledge. For this reason, computer-based intelligence (Man-made consciousness) is utilized. Computer-based intelligence investigates the issue, understands it and applies knowledge as human minds, and gives the arrangement of the issues. This assists an individual with getting arrangements for any kind of issue.



INTERNATIONAL JOURNAL OF ADVANCED RESEARCH IN
SCIENCE, COMMUNICATION AND TECHNOLOGY



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INTERNATIONAL STANDARD
SERIAL NUMBER
ISSN NO: 2581-9429

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HAS PUBLISHED A RESEARCH PAPER ENTITLED

Exploring Health Care Sector using AI with IoT

IN IJARST, VOLUME 12, ISSUE 1, DECEMBER 2021

Certificate No: 122021-A048
www.ijarst.co.in



DOI: 10.48175/IJARST-2157
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A research paper is a common form of academic writing. Research papers require writers to locate information about a topic (that is, to conduct research), take a stand on that topic, and provide support (or evidence) for that position in an organized report. Our students of Information Technology department have written research papers in the very first semester.



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Student, Department of Information Technology, Shri Bhagubhai Matatali Polytechnic, Mumbai, Maharashtra, India

In Recognition of the Publication of Manuscript Entitled

Venturing Cloud Surveillance in Concur to Deep Learning with Artificial Intelligence

Published in International Research Journal of Innovations in Engineering and Technology (IRJET)

Volume 5, Issue 12, PP 54-59, December 2021

DOI: doi.org/10.47916/IRJET2021.51201

Mail us at: editor@irjet.com / irjetjournal@gmail.com
Journal Website : www.irjet.com

Managing Editor
IRJET

ISSN (online): 2581-9429
Volume 5, Issue 12, pp 54-59, December 2021
https://doi.org/10.47916/IRJET2021.51201



Venturing Cloud Surveillance in Concur to Deep Learning with Artificial Intelligence

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Abstract - The whole world has most certainly seen a great leap in the development of an array of technologies such as Artificial Intelligence, Deep Learning, and Cloud Surveillance. As a matter of fact, a great deal of AI based devices have been setup and implemented in order to revolutionize our world. Smart homes, self-driving cars are some of the exceptional examples of such devices. Cunlong Tang et al amazingly cited in [1] that the majority of artificial intelligence technologies are computer-based. It investigates the process of translating human intellect into artificial intelligence using electronic technologies. Its entire design demonstrates intelligence and capability to do tasks that only human intellect possess.

In this paper, a comprehensive review of development of future applications of Deep Learning Algorithms with the help of Artificial Intelligence is presented in a clear and concise manner. Likewise, we have presented a detail oriented review of the application of Cloud Surveillance aided with Artificial Intelligence and Deep Learning Algorithms in various modern day systems. In the same way, Computer Vision (CV) aided Cloud Surveillance models and frameworks of several other researchers and its working has been explained in an all inclusive manner.

Keywords: Artificial Intelligence, Deep Learning, Cloud Surveillance, Neural Networks, Computer Vision.

I INTRODUCTION

The term "artificial intelligence" was first coined by John McCarthy in 1956 when he held the first academic conference on the subject [2]. Rud Lime et al amazingly described the definition of AI given by John McCarthy himself in [3]: "a branch of computer science dealing with the simulation of intelligent behavior in computers".

Finally, in this paper we will review the generated intelligent software systems.

Cross analysis has become a prominent topic in the social and technological fields due to population growth [4]. Crowd analysis is used in community events, public space construction, visual inspection, and visual areas to improve crowd management strategies. The primitive ways of dealing with mob-related protests and overcrowding was extremely violent and one which led to multiple casualties. However, now due to the support of Artificial Intelligence and Deep Learning, the learning process is done readily and as soon as possible without leading to many casualties.

A) Artificial Intelligence

Artificial Intelligence (AI) is a method of programming a computer, a robot, or a product to think like a smart human. The goal of artificial intelligence is to improve computer functions that are linked to human understanding, such as reasoning, learning, and problem-solving.

Finally, in this paper we will review the generated intelligent software systems.

How is artificial intelligence used in surveillance?

Discrepancies, such as a person entering a restricted area



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Mail us at: editor@irjet.com / irjetjournal@gmail.com
Journal Website : www.irjet.com

Managing Editor
IRJET

ISSN (online): 2581-9429
Volume 5, Issue 12, pp 54-59, December 2021
https://doi.org/10.47916/IRJET2021.61201



INTERNSHIP



Exposure to industry- INTERNSHIP

We have introduced summer internship for the curriculum designed for 2019 batch. Two batches admitted in 2019 and 2020 were placed with various companies of repute for the summer after their fourth semester .By the fourth semester students have picked up the minimum skill set required to work as a interns.

Endress+hauser, IV
Consultancy Services Private,
63Moons



SR NO	BATCH	NUMBER OF COMPANIES	DETAILS	Names of some prominent companies
1	2019	20	Period – 01/07/2021 to 10/08/2021 NO OF STUDENTS - 63 NO. OF GIRLS - 21 NO. OF BOYS - 47 NO. OF COMPANIES - 20 NO. OF SUPERVISORS - 09	Softgainz Technologies Pvt Ltd, Xanthus Software Solutions, TSS Consultancy Pvt. Ltd., Simtek Medico Systems Pvt Ltd, Tech Mahindra
2	2020	32	Period – 13/07/2022 to 20/08/2022 NO OF STUDENTS - 65 NO. OF GIRLS -18 NO. OF BOYS - 47 NO. OF COMPANIES - 32 NO. OF SUPERVISORS - 08	Endress+hauser, IV Consultancy Services Private, 63Moons, CRISIL, Tech Mahindra, Future Employment Ireland, Tata Son's Private Limited

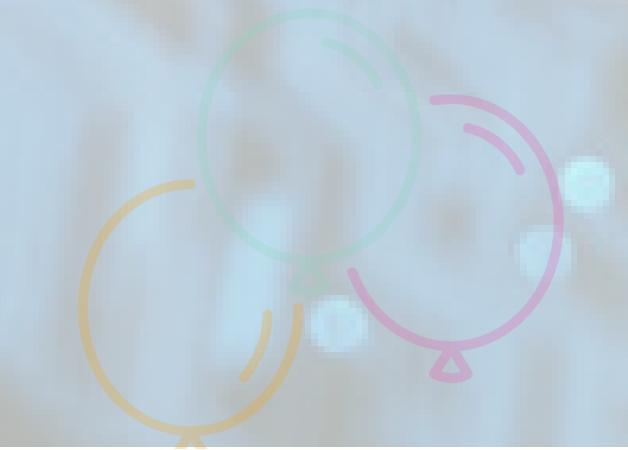


Nakshatra Annual Event

*A great Function with Some
New friends. We All learnt
The importance of
teamwork*



Showcasing Talent





Social - Cultural Millieu



Maths Event

All participants had made different poster regarding different topics and theorems of maths from which they can learn that theorem easily and it was a fantastic event

$$\sin(\theta) = \frac{\text{opp}}{\text{hyp}}$$





Some Accolades

Initiates action- Leader is a person who starts the work by communicating the policies and plans to the subordinates from where the work actually starts.

Motivation- A leader proves to be playing an incentive role in the concern's working. He motivates the employees with economic and non-economic rewards and thereby gets the work from the subordinates.

Providing guidance- A leader has to not only supervise but also play a guiding role for the subordinates. Guidance here means instructing the subordinates the way they have to perform their work effectively and efficiently.

Leadership Importance

Creating confidence- Confidence is an important factor which can be achieved through expressing the work efforts to the subordinates, explaining them clearly their role and giving them guidelines to achieve the goals effectively. It is also important to hear the employees with regards to their complaints and problems.

Building morale- Morale denotes willing co-operation of the employees towards their work and getting them into confidence and winning their trust.



Sixth IT won the best class award in 2022



Presentation



- Presentation skills are an impressive and powerful tool that will take you so much further than just speaking in the classroom. With our communication skills training, you'll become a good presenter all round, structuring and expressing your ideas clearly.
- Knowing how to make a good presentation will help you in job interviews, to make new friends, to sell a product and make business deals successfully.
- Your body language, hand gestures and eye contact will improve too. This helps captivate your audience. Your ability to plan and prepare materials, to convince your audience of what you have to say, will excel too!

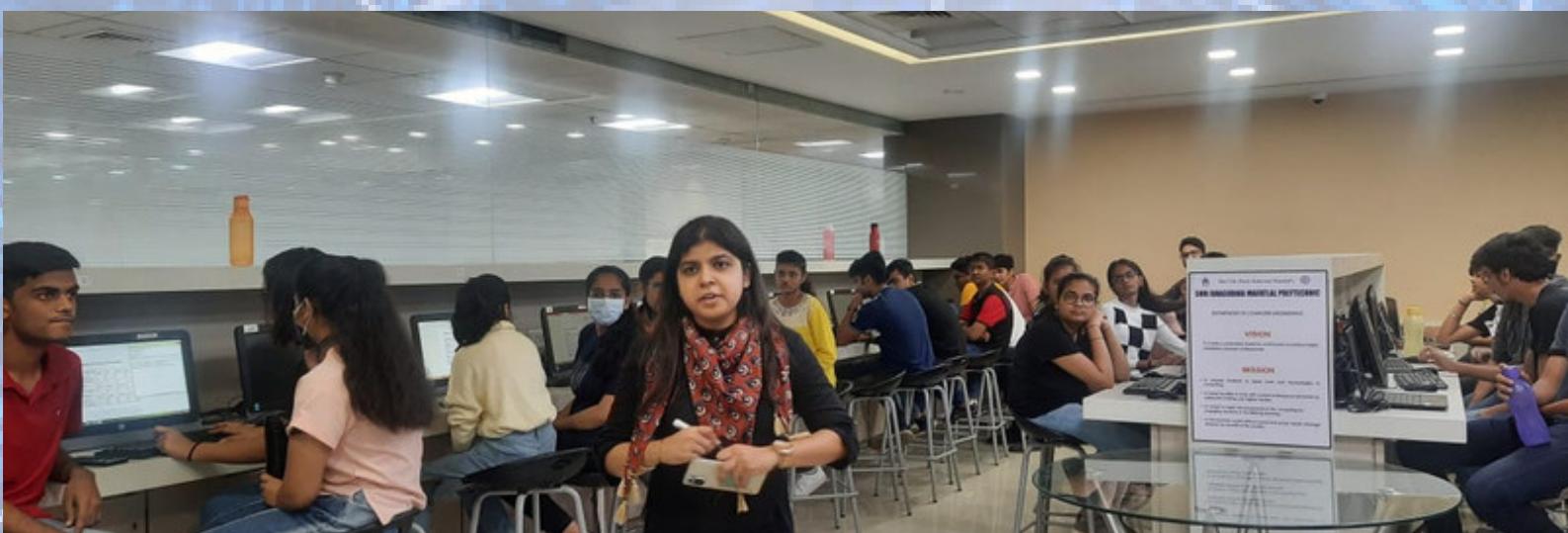
Accolades & More

- Meaningful participation means children and young people are provided the opportunity to express their views, influence decision-making and achieve change. Participation can take on many different forms including involving children and young people in decision-making about their own lives and letting them have their say in decisions about wider policies and practices that may affect them.
- Participation of children and young people means their views must be listened to and carefully considered, however, as adults we also have a duty to protect children from harm and to make sure any decisions are made in their best interests.

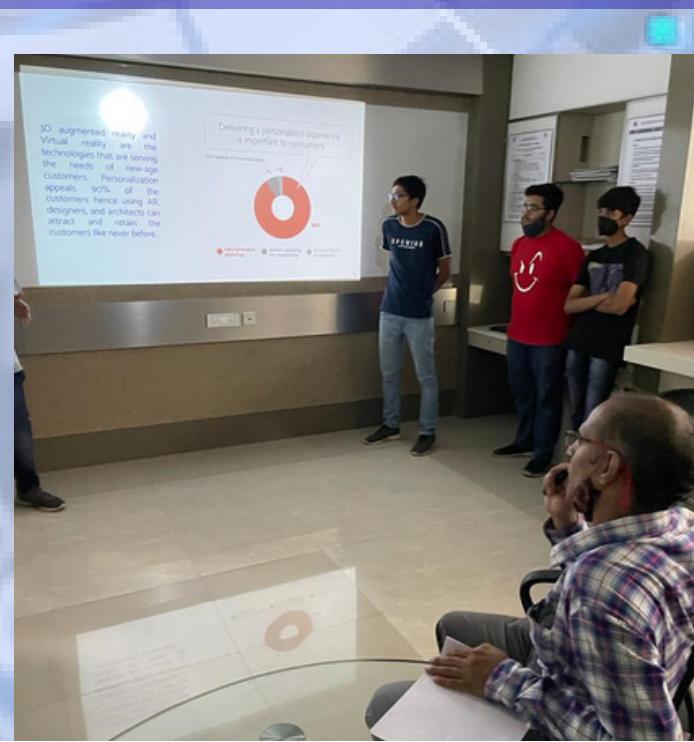




SEMINAR PRESENTATIONS AND OTHER TRIVIA



Seminars and workshops play a very important role in every student's life. Importance of seminars, workshops and presentations for students is immense as they help students analyze, be updated on latest trends, understand concepts and expand their network.





FUN ACTIVITIES

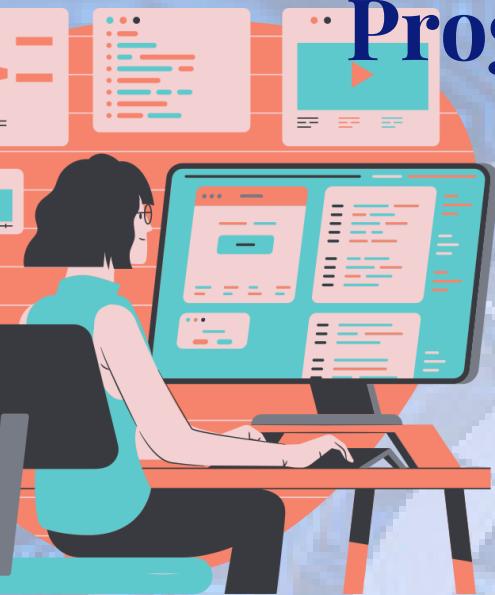


Our students are always at the forefront be it academic or extracurricular activities. Our institution set aside a few special days for our students to dress in formals, sarees, and other traditional wear. And our students did a great job of it.





ISTE Approved Short Term Training Programme for Faculty



**Topic : Machine
Learning
Algorithm using
'R' programming
and
demonstration**



There was a short term training Programme which was organised by our staff members. It was a great experience and a good session for learning something new.





THINGS END BUT MEMORIES LAST FOREVER...!!



Each person's life includes a significant amount of time spent in college. The last class of the college is held on the final day of attendance. Every student attending college experiences it. It continues to be flavorful for everyone. It evokes a lot of college life memories. There are many memories in life, both good and bad. There are some memories in life that matter much especially the college life memories. Our students have performed very well and we have enjoyed a lot with them. Definately it is always a sad day for we teachers to see off our students but on the other hand we would really wish them luck for their bright future.

INDEPENDENCE DAY CELEBRATION

"Har Ghar Tiranga- Azadi ka Amrut Mahotsav" – A tribute to Motherland

On this occasion various events were organized by the Information Technology Department of Shri Bhagubhai Mafatlal Polytechnic from 13th August to 15th August 2022. All Students from IT Department participated enthusiastically. The various competitions held were Quiz competition, Singopedia, Essay writing competition.

WINNERS LIST:

Name of the Participant	Winner
Mihir Panchal and Tanay Desai	Singopedia (1 st prize)
Siddhant Mandlik and Ved Bulsara	Singopedia (2 nd prize)
Ayush Vora	Creative Art (1 st prize)
Rashmi Kamdar	Video Making and Monologue Competition (2 nd prize) Poem Writing Competition (3 rd prize)
Aaditi Deshpande	Essay Writing Competition (1 st prize)
Bhavik Mehta	Essay Writing Competition (2 nd prize)
Jainam Sheth	Essay Writing Competition (3 rd prize)



Literature Section

Charge of light brigade

HALF a league, half a league,
Half a league onward,
All in the valley of Death
Rode the six hundred.
'Forward, the Light Brigade!
Charge for the guns! ' he said:
Into the valley of Death
Rode the six hundred.

'Forward, the Light Brigade! '
Was there a man dismay'd?
Not tho' the soldier knew
Some one had blunder'd:
Their's not to make reply,
Their's not to reason why,
Their's but to do and die:
Into the valley of Death
Rode the six hundred.

Cannon to right of them,
Cannon to left of them,
Cannon in front of them
Volley'd and thunder'd;
Storm'd at with shot and shell,
Boldly they rode and well,
Into the jaws of Death,
Into the mouth of Hell
Rode the six hundred.

Flash'd all their sabres bare,
Flash'd as they turn'd in air
Sabring the gunners there,
Charging an army, while
All the world wonder'd:
Plunged in the battery-smoke
Right thro' the line they broke;
Cossack and Russian
Reel'd from the sabre-stroke
Shatter'd and sunder'd.
Then they rode back, but not
Not the six hundred.

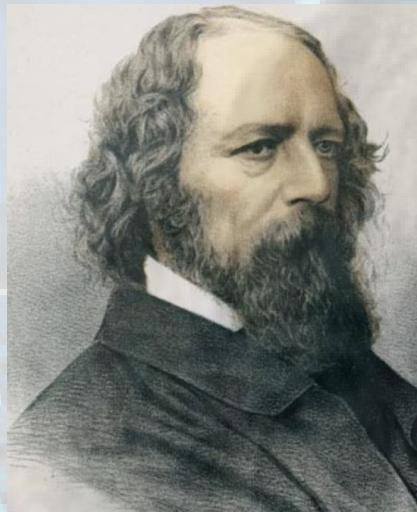
Cannon to right of them,
Cannon to left of them,
Cannon behind them
Volley'd and thunder'd;
Storm'd at with shot and shell,
While horse and hero fell,
They that had fought so well
Came thro' the jaws of Death,
Back from the mouth of Hell,
All that was left of them,
Left of six hundred.

When can their glory fade?
O the wild charge they made!
All the world wonder'd.
Honour the charge they made!
Honour the Light Brigade,
Noble six hundred!

By-Alfred, Lord Tennyson



About the author



Tennyson was the fourth of 12 children, born into an old Lincolnshire family, his father a rector. Alfred, with two of his brothers, Frederick and Charles, was sent in 1815 to Louth grammar school—where he was unhappy. He left in 1820, but, though home conditions were difficult, his father managed to give him a wide literary education. Alfred was precocious, and before his teens he had composed in the styles of Alexander Pope, Sir Walter Scott, and John Milton. To his youth also belongs *The Devil and the Lady* (a collection of previously unpublished poems published posthumously in 1930), which shows an astonishing understanding of Elizabethan dramatic verse. Lord Byron was a dominant influence on the young Tennyson.