VOLUME 6, ISSUE 2

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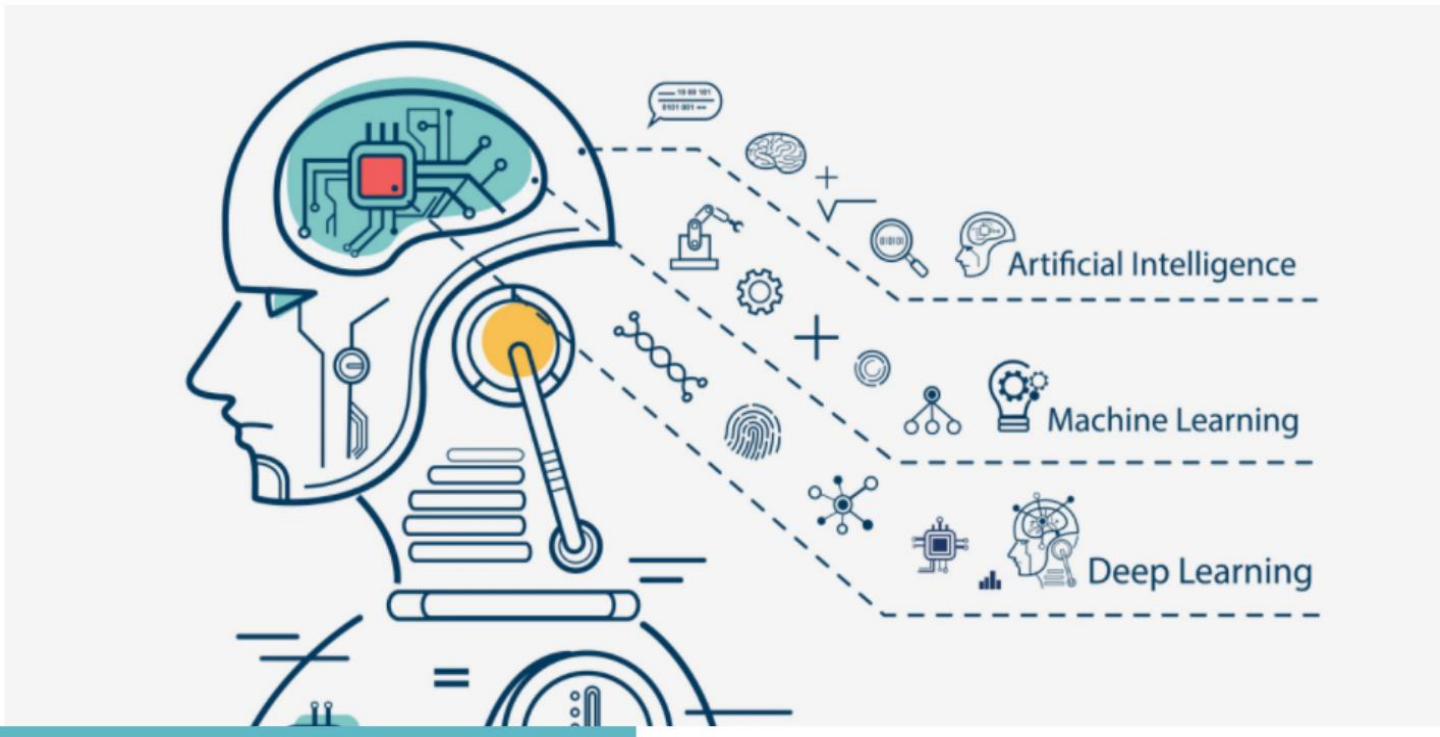
COLLEGE OF ENGINEERING,
CHANDWAD
NAAC Accredited "A" Grade
Department of Computer Engineering



FULL SEMESTER NEWS AND UPDATES:

SEMESTER 2
2020-21

COMPUTER BUZZ

ESTD - 1928

STUDENT COMMITTEE COORDINATOR

MANSHREE AGARKAR	BE COMPUTER
LOKESH PICHA	TE COMPUTER
HARSHADA TIPRE	SE COMPUTER
JAYSHRI PENDHARI	TE COMPUTER

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DEPARTMENT OF COMPUTER ENGINEERING

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Late Sau. Kantabai Bhavarlalji Jain

College of Engineering

(Jain Gurukul) Neminagar, Chandwad, Dist. Nashik (MS)

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VISION

Transform young aspirant learners towards creativity and professionalism for societal growth through quality technical education.

MISSION

- To share values, ideas, beliefs by encouraging faculties and students for welfare of society.
- To acquire the environment of learning to bridge the gap between industry and academics.
- To enhance diverse career opportunities among students for building nation.
- To transfer the suitable technology particularly for rural development.

॥ गुरुकुल संस्कार एवम् आधुनिक शिक्षा ॥

Designed By: Mr. Junaid Shaikh (B.E. Computer -2016-17)

SNJB's

Late Sau. Kantabai Bhavarlalji Jain

College of Engineering

(Jain Gurukul) Neminagar, Chandwad, Dist. Nashik (MS)

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Department of Computer Engineering

VISION

To empower young generations for significant contribution in the field of computer engineering through excellence in knowledge, technical education and innovation to cater the industrial demands and societal needs.

MISSION

- To achieve academic excellence by inculcating basic and latest knowledge in which new idea flourish.
- To undertake collaborative training which offer opportunities for long term interaction with academia and industry.

॥ गुरुकुल संस्कार एवम् आधुनिक शिक्षा ॥

Designed By: Mr. Junaid Shaikh (B.E. Computer -2016-17)

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SOURCE OF INSPRIATION

SHRI.DINESHKUMARJI LODHA

SHRI. ZUMBARLALJI BHANDARI

SHRI. SUNILJI CHOPDA

DIRECTORS OF COLLEGE OF ENGINEERING

SOURCE OF MOTIVATION

DR. M. D. KOKATE
PRINCIPAL

SNJB

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FROM HEAD OF DEPARTMENT CORNER

DR. M. R. SANGHAVI

It gives me great satisfaction to welcome you all on behalf of the entire Computer engineering department.

Happy to share the release of **Computer Buzz,Vol-6 Issue-2**.Dedication, Devotion and Détermination are keys to success in any endeavor. With the due respect Department of Computer Engineering believe in the philosophy of “Learning by Doing”.

It is heartening to see the transformational programs of our government such as Digital India, Skill India, Stand-Up India .In the same context our department has adopted the practical solutions based on **‘Digital Theme’**.

Department aims to **‘Go Green’** by using digital technology and making the system paperless ultimately saving the enviroment. The department encompasses a fine blend of renowned as well as young and dynamic faculties who promote the theme using the digital medium ; the **blog** for sharing their teaching and other technological information making it global ; **Google Classroom** for interacting with the students to upload their assignments/classwork which students can access any time, any where ; **Google Forms** to conduct mock tests for Online Examinations.

Apart from academic activities, encouragement to appear for extra as well as co-curricular activities and many other academic excellences certainly pave a red carpet welcome to the hard working students in the department. **How to write Technical Paper, Recent Trends in Computer/IT, Happiness of Mind** & multiple programs under banner of **CSI & SPACE** are highlights of this semester.

The Alumni of the Institute have done exceedingly well in all walks of life at both national and international levels, brought name and fame for themselves as well as to their parent institute. The Institute takes pride in their success.

Our students have achieved the pinnacle of success by getting placed in Top MNCs like **Infosys, Wipro, TCS, Eternus, Mohasis** & many more…

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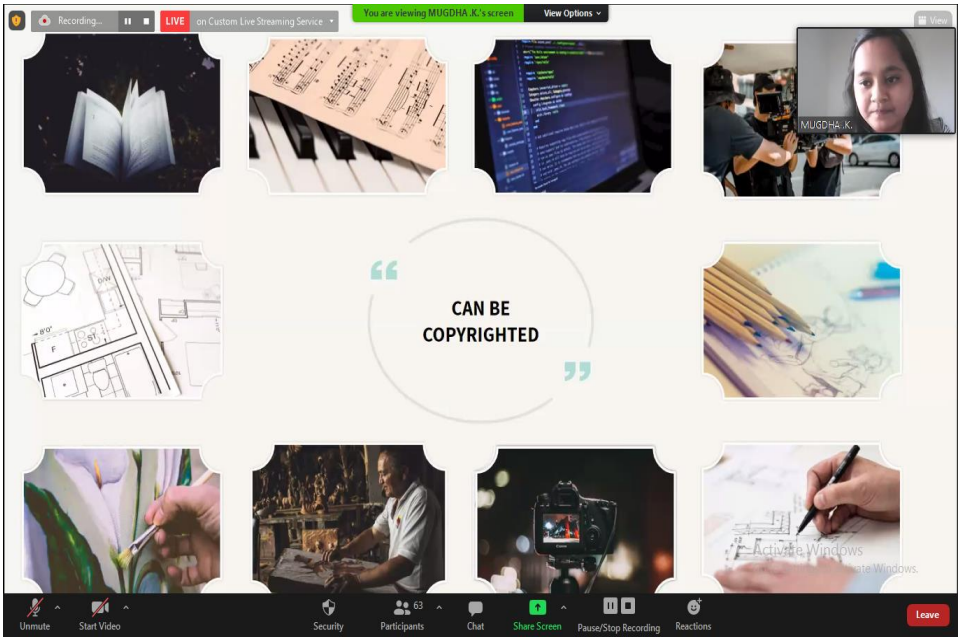
EVENTS

SR. NO	NAME OF EVENT	DATE OF CONDUCTION	RESOURCE PERSON
1	Webinar on Agile in software development	18/1/21	Mr,Rahul Kotecha
2	Webinar on on Intellectucal Property Rights: Copyright	30/1/2021	Adv. Mugdha M. Kokate
3	Webinar on How to write and Publish Paper	1/2/2021	Dr.Neeta Deshpande
4	Webinar on on Intellectucal Property Rights: Patents	1/2/2021	Prof.R.R.Bhandari
5	DSE Induction Program	5/1/2021	Principal,HOD
6	Visual Studio Code training Session	25/1/2021	Prof.A.LMaind
7	Important instructions for Honor/Minor Subject Selection	8/2/2021	Dr. S.D. Sancheti
8	The Science of Hapiness	9/2/2021	Mrs. Sneha P. Achaliya,
9	Recent Trends in Computer and Information Technology	16/2/21	Dr. P.M. Yawalkar
10	Career Opportunities In United States	18/1/21	Ms. Saloni Jain

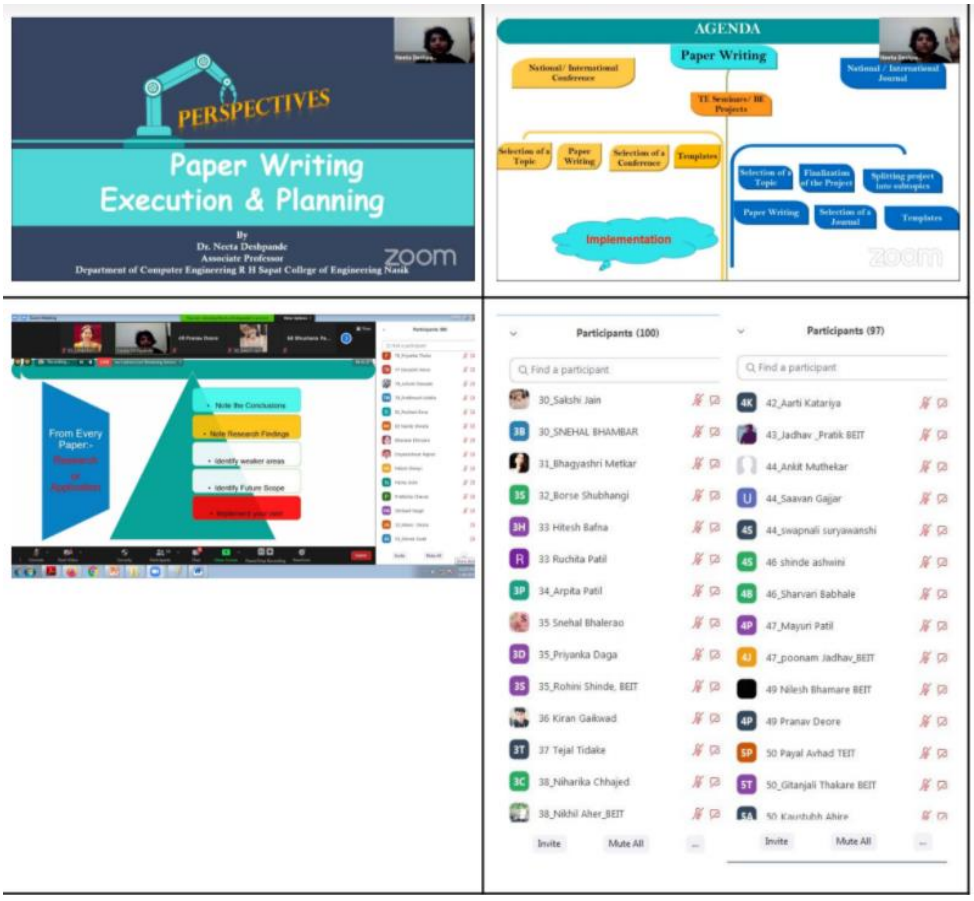
EVENTS

SR. NO	NAME OF EVENT	DATE OF CONDUCTION	RESOURCE PERSON
11	Algorythm	24/2/2021 - 26/02/21	Dr. Parikshit Mahale, Dr. Satish Narkhede
12	Career opportunity in Game Development	12/3/21	Mr.Vaibhav Mahajan
13	Project Management	13/3/21	Mr. Sunil R. Joshi
14	Modern Presentation tool- Prezi	22/3/21	Mrs. Khyati Nirmal
15	Latex TypeSetting Tool	15/5/2021	Mrs. Khyati Nirmal
16	Expert session on "How to host website freely and latest trends in Web Industry	17/5/2021	Mr. Yash Mutha
17	Google Studio	24/5/2021	Mrs. Rupali Kulkarni

WEBINAR ON INTELLECTUCAL PROPERTY RIGHTS: COPYRIGHT BY MUGHDA KOKATE



WEBINAR ON HOW TO WRITE AND PUBLISH PAPER BY DR. NEETA DESHPANDE



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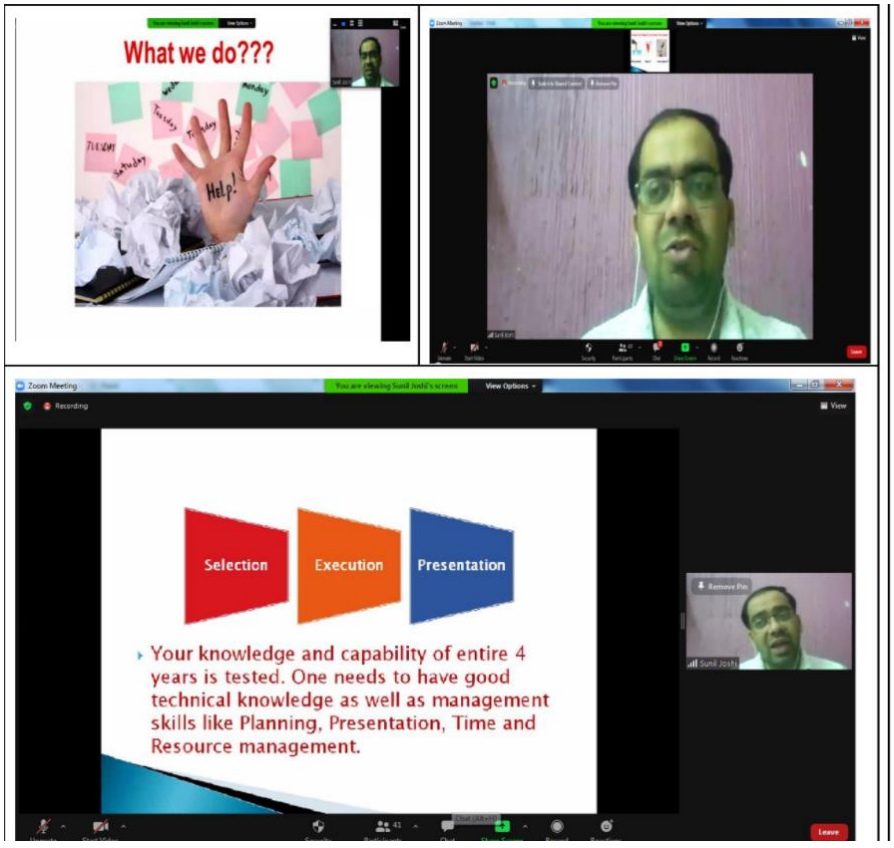
SESSION ON CAREER OPPORTUNITIES IN US BY SALONI JAIN

WEBINAR ON "PROJECT MANAGEMENT" BY MR.SUNIL JOSHI



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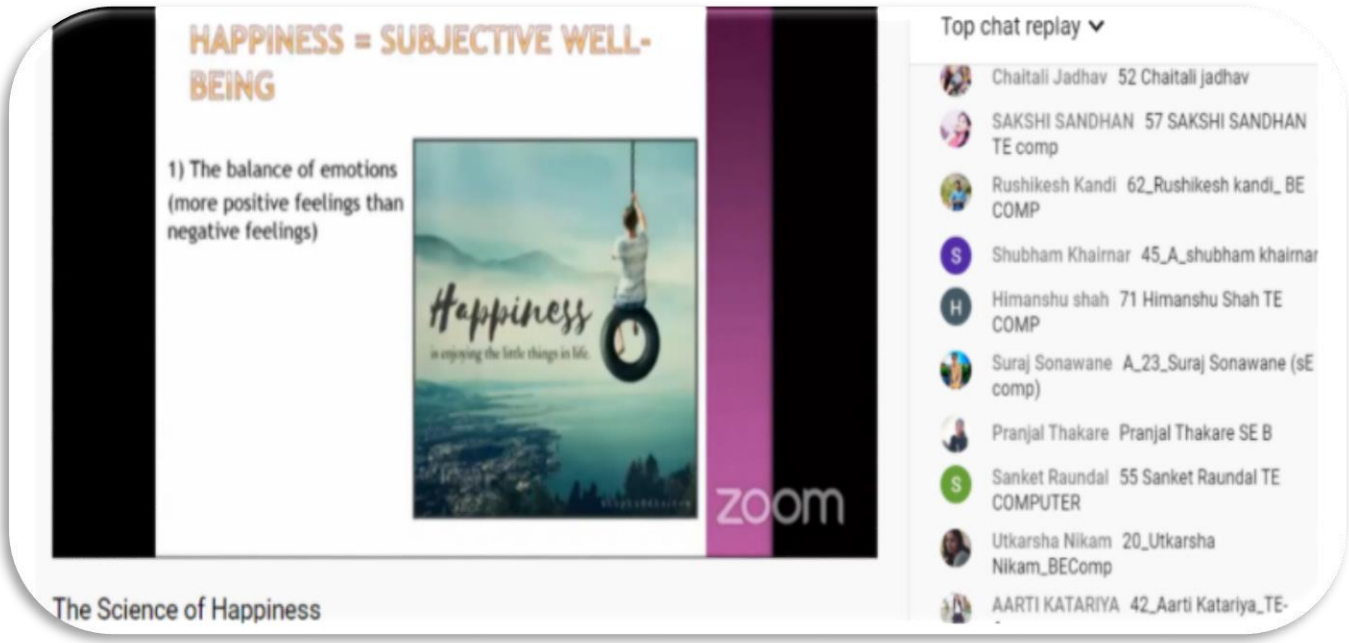
WEBINAR ON HAPPINESS OF MIND BY MS. SNEHA ACHALIYA



SEMINAR OF " CAREER OPPORTUNITIES IN GAME DEVELOPMENT IN SOFTWARE INDUSTRY" BY MR. VAIBHAV MAHAJAN

STAFF ACHIEVEMENT

Dr. Mahesh Sanghavi
(Professor & Head)
Department of Computer Engineering

- Expert Talk Delivered on Data Visualization Tool : Tableau at Priyadarshini College of Engineering, Nagpur and GHRaisoni Institute of Business Management, Jalgaon

STAFF ACHIEVEMENT

PROF. R. R. BHANDARI (ASSISTANT PROFESSOR)

STAFF PUBLICATIONS

S.N.	Faculty Name	No. Publications	Name of Paper	Publisher
1	Prof. Bhavana A.Khivsara	3	NGO Item Donation Portal	UGC Approved(International Journal of All Research Education & Scientific Methods)
			Early Childhood Education in Rural India	
			Stress Detection System Using IOT & ML	
2	Prof. Rajiv. R. Bhandari	2	"Priority-Mobility Aware Clustering Routing Algorithm for Lifetime Improvement of Dynamic Wireless Sensor Network"	Scopus (International Journal of Advanced Computer Science and Applications(IJACSA)
			Mobility-Aware Clustering Routing (MACRON) Algorithm for Lifetime Improvement of Extensive Dynamic Wireless Sensor Network	International Conference on Intelligent and Smart Computing in Data Analytics
3	Prof.Santosh B. Ambhore	1	Share Market Prediction by using ML	Journal of Advancement in Parallel Computing
4	Prof.Dnyaneshwar. S. Rajnor	1	AGRICULTURAL DRONE	IRJET(International Research Journal of Engineering & Technology)
5	Prof.Suchita A. Chavan	1	Various Approaches for Video Inpainting: A Survey	IEEE
6	Prof. Amol J. Shakadwipi	1	Smart Traffic Control System by Using Image Processing	IOSR Journal of Computer Engineering (IOSR-JCE)
7	Prof. Swati V. Sinha	1	Early Childhood Education in Rural India	UGC Approved(International Journal of All Research Education & Scientific Methods)

STUDENT ACHIEVEMENT

STATE / NATIONAL / INTERNATIONAL LEVEL

- STUDENTS COMPLETED 141 CERTIFICATIONS IN VARIOUS DOMAINS LIKE SOLOLEARN, UDEMY, CLOUD COMPUTING AND MANY MORE.
- **MANSI GIRASE** FROM TE COMPUTER WON **FIRST PRIZE IN BRAIN BREEZEER.**
- **KADAM GITANJALI** WON **SECOND PRIZE** IN **STATE VIRTUAL LEVEL MEGA EVENT ALGORYTHM 2K21**

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SR. NO	NAME OF STUDENT	COMPANY NAME	POST
1	ANKITA SANGHAI	ACCENTURE	APPLICATION DEVELOPMENT ASSOCIATE
2	APEKSHA SANGHAVI	WIPRO TECHNOLOGIES	PROJECT ENGINEER
3	APURVA JAIN	UFABER EDUTECH	BUSINESS DEVELOPEMENT MANAGER
4	ASHWINI MANDALIK	COURSE 5	JUNIOR ANALYST
5	ATHRVA SAYANKAR	VEDASOFT	JUNIOR DEVELOPER
6	DEVESH PALOD	TATA CONSULTANCY SERVICES	ASST. SYSTEM ENGINEER TRAINEE
7	DIVYA WANI	TATA CONSULTANCY SERVICES	ASST. SYSTEM ENGINEER TRAINEE
8	HEMANGI WAGH	GLOBAL MOBILITY	TELECALLER
9	KAJAL PANDE	WINJIT TECHNOLOGIES	TRAINEE ENGINEER
10	KHUSHABOO BEDMUTHA	AMT SKILLS	TRAINEE
11	KRUSHNA SHINDE	CAPGEMINI	ANALYST
12	MADHURA WAGH	L&T INFOTECH	GRADUATE ENGINEERING TRAINEE
13	MANASHREE AGARKAR	TATA CONSULTANCY SERVICES	ASST. SYSTEM ENGINEER TRAINEE
14	MUKUND MUNDADA	NANOSTUFFS TECHNOLOGIES	TRAINEE SOFTWARE ENGINEER
15	NIKITA AHIRE	FIJUTSU	TECHNICAL SERVICE TRAINEE

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16	PRACHI KSHIRSAGAR	APLUS VISION PVT. LTD.	COUNSELLOR
17	PRATIKSHA CHAUDHARI	CAPGEMINI	ANALYST
18	PRATIKSHA CHOPADA	TATA CONSULTANCY SERVICES	ASST. SYSTEM ENGINEER TRAINEE
19	RAJASHREE SHIRUDE	FIJUTSU	TECHNICAL SERVICE TRAINEE
20	RIDHAM CHADWA	PROPERTY PISTOL	ASM
21	RIYA GANDHI	ACCENTURE	APPL DEV ASSO
22	RUSHIKESH KANDI	DHOOT TRANSMISSION	GAT
23	RUTUJA DIWATE	TCS	ASST. SYSTEM ENGINEER TRAINEE
24	SALONI JAIN	NANOSTUFFS TECHNOLOGIES	TRAINEE SOFTWARE ENGINEER
25	SAMRUDDHI DESHMANE	ACCENTURE	APPL DEV ASSO
26	SARATHI BHAVSAR	KNEO AUTOMATION	SOFTWARE DEVELOPER
27	SHAJAL JAIN	DHOOT TRANSMISSION	GAT
28	SHITAL KUSHARE	KAIZAN	SOFTWARE ENGINEER
29	SIDDHARTH GELDA	NANOSTUFFS TECHNOLOGIES	TRAINEE SOFTWARE ENGINEER
30	SIDDHI BHAVSAR	MINDTREE	SOFTWARE ENGINEER
31	SMITA YEOLA	FRESH GRAVITY	ANALYST DATA MANAGEMENT
32	UTKARSHA THOMBRE	DHOOT TRANSMISSION	GAT
33	VAIBHAV BAFNA	CAPGEMINI	ANALYST
34	AYUSHI JAIN	INFOSYS	SYSTEMS ENGINEER
35	NISHA USHIR	INFOSYS	SYSTEMS ENGINEER

SR. NO	NAME OF STUDENT	COMPANY NAME	POST
36	PRATIKSHA CHAVAN	COGNIZANT	GEN C DEVELOPER
37	PRAVIN DESHMANE	COGNIZANT	GEN C DEVELOPER
38	RUCHA YEOLE	ACCENTURE	APPLICATION DEVELOPMENT ASSOCIATE
39	RUJVI PATNI	T SYSTEMS	TRAINEE ENGINEER
40	SAURAV PARDESHI	BYJU'S	BUSINESS DEVELOPEMENT MANAGER
41	SEJAL KANKARIYA	ACCENTURE	APPLICATION DEVELOPMENT ASSOCIATE
42	SHOEB KADRI	INTELLECT	SYSTEM TRAINEE
43	SHRADDHA AHIRRAO	ACCENTURE	APPLICATION DEVELOPMENT ASSOCIATE
44	SHUBHALI HIRAN	COGNIZANT	GEN C DEVELOPER
45	SUYASH MAHAJAN	ACCENTURE	APPLICATION DEVELOPMENT ASSOCIATE
46	SWAPNALI SURYAWANSHI	ACCENTURE	APPLICATION DEVELOPMENT ASSOCIATE
47	TUSHAR BHAMARE	COGNIZANT	GEN C DEVELOPER
48	VAIBHAV DIVATE	COGNIZANT	GEN C DEVELOPER

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NEWS COVERAGE & MEDIA

लोकमत

वाणिज्य न्यूज

चांदवड महाविद्यालयात अल्गो -रिदम कार्यक्रम

चांदवड : येथील एस. एन. जे. बी. संचलित स्व. सौ. कांताबाई भवरलालजी जैन अभियांत्रिकी महाविद्यालयात स्पेस स्टुडंट असोसिएशन आणि कॉम्प्युटर सोसायटी ऑफ इंडिया, नाशिक चाप्टर यांच्या संयुक्त विद्यमाने तीन दिवसीय अल्गो-रिदम या राज्यस्तरीय ऑनलाइन स्पर्धात्मक कार्यक्रमाची सांगता झाली. कार्यक्रमाच्या पहिल्या दिवशी हाऊजी धमाका वर्डसवर्थ, मुलाखत, रांगोळी आदी स्पर्धा घेण्यात आल्या, तर दुसऱ्या दिवशी ग्रुप डिस्कशन, कोड मास्टर, ब्रेण्ड फ्रिझर, लुडो किंग आदी स्पर्धा पार पडल्या. कार्यक्रमाची सांगता कविता बनविणे, लोगो बनविणे या स्पर्धांनी करण्यात आली. पारितोषिक वितरणाचा कार्यक्रम डॉ. सतीश नारखेडे यांच्या हस्ते करण्यात आला. या कार्यक्रमाचे संयोजन प्रा. दीपाली पवार यांनी संगणक विभागप्रमुख डॉ. महेश सघवी व प्राचार्य डॉ. महादेव कोकाटे यांच्या मार्गदर्शनाखाली केले. कार्यक्रमाचे उद्घाटन डॉ. परीक्षित महल्ले यांनी ऑनलाइन उपस्थित राहून केले.

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लोकमत

अभियांत्रिकी महाविद्यालयात मॉक इंटरव्ह्यू

चांदवड : येथील एस एन जे बी संचलित स्व . सौ. कांताबाई भवरलाल जैन अभियांत्रिकी महाविद्यालयात इन्फोसिस कंपनीसाठी मॉक इंटरव्ह्यूचे आयोजन करण्यात आले होते. इन्फोसिस कंपनीने घेतलेल्या प्लेसमेंट ड्राईव्हच्या प्रथम फेरीमध्ये महाविद्यालयातील एकूण दहा विद्यार्थी निवडून आले आहेत. या सर्व विद्यार्थ्यांचे मॉक इंटरव्ह्यू महाविद्यालयाची माजी विद्यार्थिनी जिनल शाह, जी सध्या इन्फोसिस मध्येच कार्यरत आहे. इंटरव्ह्यूचा उद्देश विद्यार्थ्यांच मुख्य इंटरव्ह्यूसाठी तयारी करून घेणे, त्यांना मार्गदर्शन करणे असे होते. आयोजन प्रा. पराग आचलिया यांनी प्रा. पंकज कापसे व प्रा. घनश्याम ढोमसे यांच्या सहकार्याने करण्यात आले. त्यांना प्राचार्य डॉ. महादेव कोकाटे, विभागप्रमुख डॉ. महेश सघवी यांचे मार्गदर्शन लाभले. या कार्यक्रमासाठी संस्थेचे विश्वस्त अध्यक्ष बेबीलाल संचेती, विश्वस्त उपाध्यक्ष दिनेशकुमार लोढा, सेक्रेटरी जवाहरलाल आबड, अजितकुमार सुराणा, उपाध्यक्ष अरविंदकुमार मन्साळी, समन्वयक झुंबरलाल भंडारी व सुनीलकुमार चोपडा उपस्थित होते.

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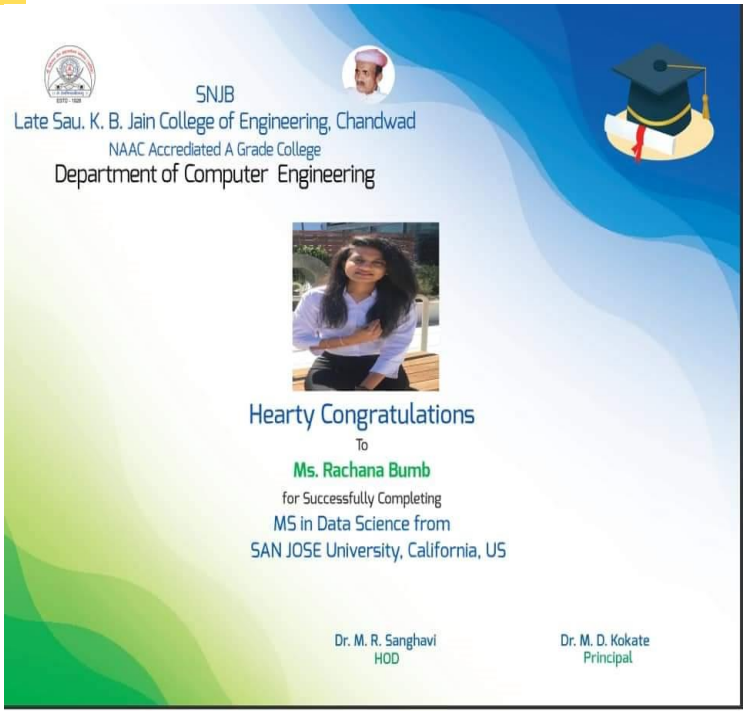
SOCIAL MEDIA COVERAGE

SOCIAL MEDIA COVERAGE

ALUMNI CORNER

MS. KHUSHBU JAIN ALUMNI OF BATCH 2019-20 PLACED IN **GENERALMILLS** WITH PACKAGE **8.8 LPA**

MS. RACHANA BUMB ALUMNI OF BATCH 2019-20 COMPLETED MS IN **DATA SCIENCE** FROM SAN JOSE UNIVERSITY, USA



TECHNICAL ARTICLE BY STUDENT

AGRICULTURAL DRONE

MR. KRISHNA SHINDE , MR.BHUSHAN CHAVAN, MS. PRATIKSHA CHOUDHARY, SUYOG DESHMANE

Abstract – *One of main source of income in India is Agriculture. The production rate of crops in agriculture is based on various parameters like temperature, humidity, rain, etc. Which are natural factors and not in farmers control. The field of agriculture is also depending on some of factors like pests, disease, fertilizers, etc. Which can be control by giving proper treatment to crops. Pesticides may increase the productivity of crops but it also effects on human health. So, the main aim of this paper is to design agriculture drone for spraying pesticides. SO, developing a system, such that spray management using the Android app & Drone to overcome Tractor Bloor Spray management system problems in rainy season. Also, this system will give feature Monitoring of plant. The conclusions of the project will be, Drone use in agriculture provides new possibilities to solve lot of problems. Agricultural Drone are going to be helpful for farmers in spraying fertilizers, pesticides and crop protection products while being controlled by one person operating from secure position. Presently, the Drone we developed is for spraying, crop protection products only but there is a lot of features of Drone.*

Key Words: Global Positioning System, Autonomous Vehicle, Internet of Things, Machine Vision, Unmanned Aerial Vehicle, etc.

1. INTRODUCTION

An agricultural drone is an unmanned aerial vehicle (UAV) used to help improve agricultural operations and monitor crop growth. Digital imaging ability can give farmers a richer image of their area. Using an agriculture drone and collecting information from it may improving crop yields and farm efficiency.

Agricultural drones help farmers to see their crops from the high. Which helps farmer to distinguish healthy and unhealthy crops, a difference is not always visible to the naked eye. Thus, these views can help to improve crop growth and production.

Additionally, the drone can survey the crops for the farmer periodically to their liking. Weekly, daily, or even hourly, pictures can show the changes within the crops over time, thus showing possible "trouble spots". Having identified these trouble spots, the farmer can attempt to improve crop management and production.

The agricultural industry seems to possess drone technology with open arms, using these advanced tools to transform modern farming.

Farmers drive a drone over their field which will specifically identify an issue in a specific area, and take the necessary actions to correct the problem. This gives the farmer time to focus on production and save time of surveying crops.

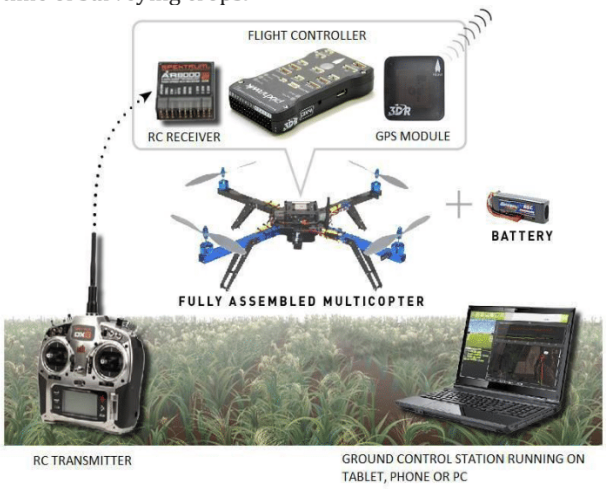


Fig -1: Control System

2. LITERATURE SURVEY

Implementation of Autonomous Drone An agriculture drone can be used to survey crops. Thus, a drone that has a high-quality camera will be required. This type of UAV enables near real-time monitoring. It's a good idea to look for a drone that has a stabilization system. It will reduce footage shakiness and contribute to a much better surveillance process. The next choice to make focuses on whether a fixed-wing or a multirotor drone should be purchased. Most farmers prefer fixed wing-drones because of several important benefits such as broader mapping coverage and faster data acquisition Multi-rotor platforms have batteries that last a shorter period. In comparison, fixed-wing drones can spend much more time in the air. This characteristic turns them into great gadgets for the owners of large farms. Fixed-wing drones are best-suited for the surveillance of large open spaces. Also, besides, they can carry more payload. This means that such drones are equipped with a bigger number of sensors than the multi- rotor ones. Also, there are several additional features and upgrades to look into.

Some drone models can come with an optional ground control station, RC controller and additional sensors for even better surveillance.

A few other things to look for in a good farm drone include Easily to control of the drone Able to record video apart from real-life streaming The Integrated GIS mapping application

Added safety features like fly home in the case of loss of control Use of memory points to return to a place of interest Research on the autonomous drone is usually using a drone that utilizes GPS devices. A drone can be used for delivering items or used widely in agriculture for area mapping. That all the basic concepts of autonomous in drone technology. One of such ICT landmarks is the introduction and usage of drones in Ghana. Indian agriculture needed production and protection materials to achieve high productivity.

Agriculture fertilizer and chemical frequently needed to kill insects and improve efficiency. According to the WHO (World Health Organization) there are 1 million plus pesticide cases every year. In that more than 1 lakh deaths each year, especially in developing countries due to the pesticides sprayed by a human being. The pesticide affects the nervous system of humans and leads to disorders in the body. A remote-controlled UAV (Unmanned Aerial Vehicle) is used to spray the Pesticide as well as fertilizer to avoid the humans from pesticide poison. Our previous research successfully proposed a method for object detection and navigation systems for delivering items using GPS-Based autonomous drones. A challenging task for the autonomous drone is a drone that able to detect and recognize important objects vastly. Drones are an important recent technology for precision agriculture, as they allow farmers to constantly monitor crop and livestock conditions by air. Some of the important features are: Mapping: The user only needs to draw around the area he needs to cover when the drone is equipped with flight planning software that allows it to follow the path and height of flying automatically. Drones will take pictures using the onboard and camera sensors and built-in GPS to determine when to take each shot to determine the level of image overlapping. Crop dusting: Drones able to carry tanks of fertilizers and pesticides to spray crops with far more precision than a tractor. This helps reduce costs and potential pesticide exposure to workers who would have needed to spray those crops manually.

Mapping and GIS Geospatial technology is what gives UAS the ability to be autonomous. Without the capability of following a GPS guided flight plan, a drone is just a glorified radio-controlled aircraft. In addition to autonomous operation, certain drones carry a myriad of sensors. The convenience of inspecting vast infrastructure without significant time and manpower invested is enough of a reason for surveyors, construction firms, and power companies to deploy drones. GIS mapping allows us to recognize and analyze relationships between the geographical object in the earth surface, and we can use such information to formulate plans to improve life on Earth, as well as the life of the Earth. Examples of drone/UAV applications that are specified in the precession farming area in Indonesia as done by specifically for oil palm tree counting with fast acquisition time and accuracy that reaches 95 percent Misbah et al use a quadcopter drone for pesticide spraying. Because pesticide exposure can cause a range of neurological health effects such as memory loss, loss of coordination, reduced speed of response to stimuli, reduced visual ability, altered or uncontrollable mood and general behavior, and reduced motor skills. For the pesticide spraying mechanism, we use a pesticide tank of capacity 180 ml, submersible dc motor pump, 9 V battery, switch, pipes fitted to T-split and mini nozzles. When the switch is turned on, the motor pumps the pesticides through the pipe with the help of the battery. The pipes supply the pesticides to the nozzles via the T-split so that it sprays with a certain pressure and uniformity, thereby avoiding wastage.

Table -1: LITERATURE SURVEY

Sr. No.	Title	AUTHOR NAME	Year
1.	Quadcopter UAV based fertilizer and pesticide spraying system	Prof. S. Meivel, ME	2016
2.	Agricultural Drone for spraying fertilizer and pesticides	Prof. P.P. Mone	2017
3.	Drones for smart agriculture: A Technical report	Prof S.R. Kurkute	2018

2.1 Advantages

- Drones are used in large scale farming for spraying of insecticides and pesticides due to its remote- control operation from distant.
- It helps farmers in scouting their fields quickly and efficiently. This saves time in determining status of fields.
- They are easy to use with very basic training.
- With push of a button drone can return home.
- Thermal cameras help in finding wet and dry patches. This helps farmers avoid wastage of water.

2.2 Limitation

- It requires basic knowledge and skills to operate the agriculture drones
- Most of the drones have less flight time and covers less area. Drones having long flight time and long range are costlier. Drones having more features are also more expensive.
- Need to obtain government clearance in order

to use it (For Larger size).

- It is difficult to fly them in extreme conditions.

2.3 Applications

Agricultural drones are used for following applications.

- To monitor plant health
- To count number of plants
- To spray pesticides and insecticides on the crops
- To schedule seeding and harvesting processes at appropriate time as needed
- To reduce usage of scarce resources
- Recording data for future analysis

3. CONCLUSIONS

Drones have already vastly altered the agricultural industry and will continue to grow in the coming years. While drone use is becoming more useful to small farmers, there is still ways to go before they become part of every farmer's equipment roster, particularly in developing nations. Regulations around drone use need to be made and revised in many countries and more research needs to be done on their effectiveness at certain tasks, such as pesticide application and spraying. There are many ways drones can be useful to farmers but it is important to understand their limitations and functions before investing in expensive equipment. Drone Deploy, an agricultural drone supplier and programming company, suggest starting small and incorporating drone data into your organization slowly for the best results. The cost of drones is expensive and also their maintenance is also expensive for small farmers.

3.1 ACKNOWLEDGEMENT

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TECHNICAL ARTICLE BY STUDENT

SHARE MARKET PREDICTION BY USING ML

KAJAL PANDE, SEJAL KANKARIYA, RUJVI PATNI & DIPALI BACCHAV

ABSTRACT

In this project we analyze existing and new methods of share market prediction. We use three unique approaches at the problem: Fundamental analysis, Technical Analysis, and the application of Machine Learning. We get corroboration in support of the weak form of the coherent Market Hypothesis, that the historic price does not contain useful information but out of sample data may be predictive. The Main Aim behind this project is to guide an investor's determination by Fundamental Analysis and Machine Learning. We use the Fundamental Analysis methodology that produces only useful information from the given dataset. Based on our Algorithmic analysis trading programs are developed.

Keywords-*Prediction, analysis, share market*

INTRODUCTION

Investment in Share is one of the most rated businesses for making money for middle class investors. After that it is actual trading business of high class investors and traders. Company's share price is most important point for investor which always fluctuates up and downwards. Eyes always need on live price of share market and instant decision making is necessary to prevent loss of money and eventually to gain money. For this you have to make study of the company's financial history and future agenda. Dependent on overall study related to market and company you can decide to invest. But you have limits to study because one cannot be sure about that study and analysis is correct. Company's market history, tendency of maintaining business in any period or slack, policies and announcements are the key points of Share Rate. It is difficult field of work and need lot of experience to be a successful investor.

CONTENT

Table 1:-*Scope of machine learning and collaborative applications*

Focus	Scope
Machine Learning	Prediction and Analysis
CollaborativeApplications	Share Prediction and Analysis

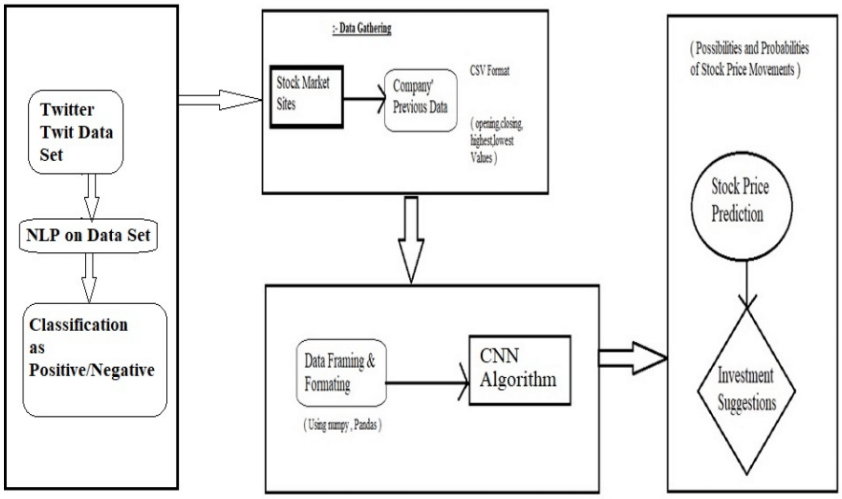

Fig.1:-*System architecture diagram.*

RESEARCH AND REVIEWS

Financial analysts investing in share market usually are not aware of the share market behavior. They are facing the problem of trading as they do not properly understand which shares to buy or which shares to sell in order to get more profits. In today's world, all the information pertaining to share market is available. Analyzing all this data individually or manually is phenomenally difficult. As such, automation of the process is required. This is where Data mining techniques help. Understanding that analysis of numerical time series gives close results, intelligent investors use machine learning techniques in predicting the share market behavior. This will allow financial analysts to foresee the behavior of the share that they are interested in and thus act accordingly. The input to our system will be historical, traditional data from different websites. Appropriate data would be applied to find the share price trends. Hence the prediction model will notify the up or down of the share price movement for the next trading day and investors can act upon it so as to maximize their chances of gaining a profit. The entire system would be implemented in Python/Java and R language using open source libraries. Hence it will effectively be a zero cost system.

CONCLUSION

Share Market Prediction is a peer-reviewed prediction model that covers all topics related to share market prediction and Analysis. here we found that machine learning algorithms are used for prediction of share market. From graph person cannot read and understand about graphical representation of stock prices. So we do the prediction with the help of Machine learning algorithm. we use CNN algorithm for prediction with accuracy.

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