Samarth Samaj's
Shivajirao S Jondhale College of Engineering, Dombivli (E) (Affiliated to
University of Mumbai, Approved by AICTE)

Our institute has a vision to impart a quality technical education for creating competent and ethically strong professionals. College intends to provide a friendly and healthy environment to students. Institute has developed some of the best practices to achieve the vision and mission. Two of the practices are elaborated here are:

# Best Practice 1:

1. **Title of the Practice**: Smart India Hackathon Cell

2. **Objective:**
   - Harness ingenuity and capability of students.
   - Build pathway for Startup India campaign.
   - Sourcing solutions for improving quality of life and facilitate governance.
   - Provide opportunity to students to provide innovative solutions to India's unapproachable problems.

3. **The Context:**
   Smart India hackathon is a 36 hours ceaseless digital product building competition, during Which student teams from all over India race to offer innovative solutions in order to make our nation a highly advanced, developed and prosperous one.

4. **The Practice:**
   Every year Smart India hackathon cell of our institute organize internal hackathon competition for different teams. Judges select two or three best teams to represent our institute in Smart India hackathon competition. Cell also organizes workshop for selected teams to groove up their skill.

5. **Evidence of Success:**
   Participants list enclosed below.

6. **Problems encountered and resources required:**
   Now a days very few students are focused so it is difficult to prepare Students for participation in such marathon coding competitions.

## Events: Internal Hackathon
**Venue: Seminar Hall, F Building**

Date : 12th march 2022

A hackathon is a competitive event where programmers, developers, and others involved in software and hardware development collaborate actively on software or hardware projects. It's an innovation marathon, where the participants create solution to Real-Life problem.
The Smart India Hackathon (SIH) is a nationwide initiative of the Government of India to provide a platform for students to solve some of the critical problems we face in our daily lives. The aim is to challenge students to think outside the box and provide innovative ideas to create intelligent applications that will help to improve the lives of millions of Indians. Internal hackathon is conducted within the college to select best teams to send the them for the grand finale. This give's students an opportunity to think outside of the box and helped them to develop team skills for their future ventures.

**Participating teams:**

| Team No. | Team Name | Members | Team Leader and mail id |
|---|---|---|---|
| 1. | Infinities | Tejas Rajendra More<br>Omkar sandeep rane<br>Sushant Rakesh Lokhande<br>Aditi Anil Kembulkar<br>Siddhi Dattaram kshirsagar<br>Rohan Jawale | Tejas Rajendra More<br>tejasm3254@gmail.com |
| 2. | Code warriors | Vinayak shirke<br>Falguni Nitin Patil<br>Sahil Prabhakar Parab<br>Rudranksh Sakpal<br>Devang Pandya<br>Ankit V Pandey | Ankit V Pandey<br>ankitp0199@gmail.com |
| 3. | Couch potatoes | Yadav apala<br>Palkar Ayush Sandip<br>Sakshi Sunil Gopal<br>Samruddhi Sanjay Deo<br>Kamthe Mitesh Rajesh<br>Sali Shantanu Ravindra | Kamthe Mitesh Rajesh<br>miteshkamthe@gmail.com |
| 4. | Hexagon | Dipti Malla<br>Om Mahesh Surti<br>Bhehul Rajderkar<br>Garate Aryan Arvind<br>Naman Suthar<br>Akash Dattatray Sangle | Naman Suthar<br>namansuthar12345@gmail.com |
| 5. | Techno | Vahaz Kazi<br>Sakshee Chakresh Mishra<br>Shreyas Kadam<br>Atharv Ghule<br>Sanket Jadhav<br>Shivam Mane | Vahaz Kazi<br>vahazkazi07@gmail.com |

| 6. | Hachers Katta | Payal Sampada Mahendra<br>Shetye Smit Bhaskar<br>Riddhi Hitesh Radia<br>Prashik Gautam Gawai<br>Duhita Milind Narkhede<br>Koli Yukta Fulaji | Riddhi Hitesh Radia<br>riddhiradia014@gmail.com |
|---|---|---|---|
| 7. | Team nerds | Yash Gatade<br>Srushti Talekar<br>Suraj yadav<br>Tiwari Anurag Santosh<br>Anand Yadav<br>Vishwakarma Pawankumar Shitalaprasad | Suraj yadav<br>sy8070068871@gmail.com |
| 8. | Preci-zen | Jayparth More<br>Rahul Dalvi<br>Mohd. Tarique Khan<br>Pandurang (Pavan) Karalkar<br>Pallavi Mahendra Deokar<br>Rajesh Shripati Jar | Jayparth More<br>moreparth123@gmail.com |

## Judging Process:

Once a team comes forward to present the solution of their problem statement before the jury panel, they are taken through a question-and-answer session where each and every member is asked questions about the project and they are assessed according to their understanding of the project.

- First round of evaluation, 4 judges for team evaluation (10 min per team, 7 min presentation and 3 min Q & A).
- Expert mentoring session 5-7 minutes per team.
- Second round of evaluation, 4 judges for team, evaluation based on evaluating implementation of ideas.

    Evaluation based on the following factors:
1. Innovativeness of proposed solution.
2. Clarity and details in prescribed format.
3. Knowledge.
4. Feasibility of proposed solution.
5. Scale of impact.

## Judges Details:

1.    Mr. Raj Nikam,
      Designation: Software developer
      Company name: We3 Tech Works
2.    Mr. Akshay Rahate
      Designation: Open-Source Engineer
      Company name: Voltron Data
3.    Dr. Uttara Gogate
      HOD, Computer Engineering Department
4.    Dr. Bhavana Thakur, Associate Professor and Dean R&D
      EXTC Department.

**Deep Prajwalan**



**Judges Panel**



**Falicitation to Principal Dr. P.R.Rodge**

Falicitation to Dr. Uttara gogate



Falicitation to Dr. Bhavna thakur
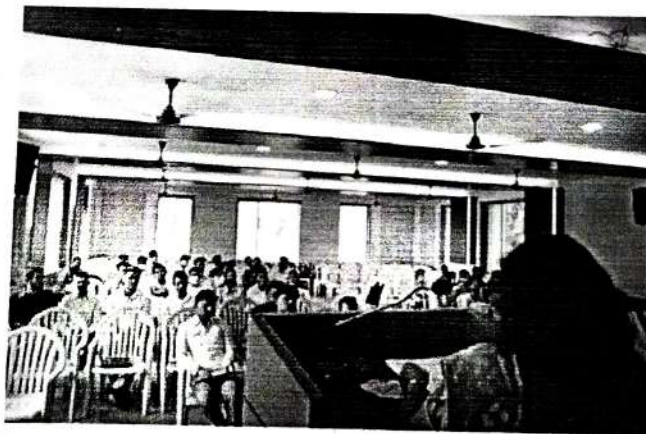
**Participating teams:**



कल्याण, महाराष्ट्र, India
Shivajirao S Jhondhale College of Engineering Dombivli
Lat 19.230764°
Long 73.117164°
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**Team 1 : Infinites Team Leader : Tejas More**



कल्याण, महाराष्ट्र, India
Shivajirao S Jhondhale College of Engineering Dombivli
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Long 73.117164°
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**Team 2 : Code Warriors Team Leader : Ankit Pande**



कल्याण, महाराष्ट्र, India
Shivajirao S Jhondhale College of Engineering Dombivli
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Long 73.117164°
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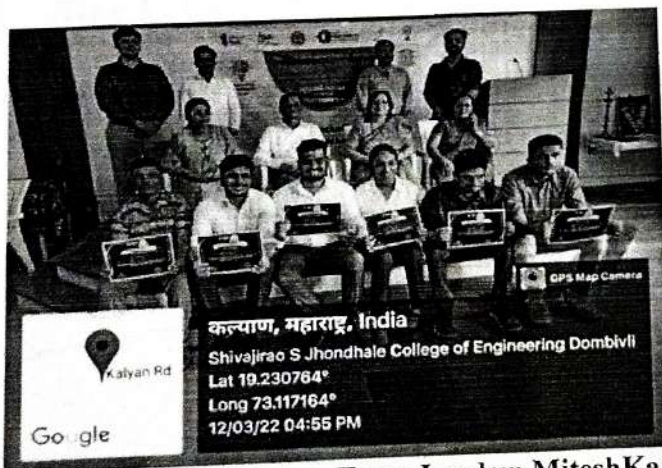
**Team 3 : Couch Potatoes Team Leader: MiteshKamthe**

SIH 2022 Grand finale were organised at galgitia Univrsity Greater Noida on 25th to 26th August. Following teams Participated in Grand finale of Smart India Hackathon Compétition Software Edition.

| Sr. No. | Team Name | Name of the student | Position | Branch |
|---|---|---|---|---|
| 1 | Novachrono | Kamthe Mithesh R. | Team Leader | Computer |
| | | Palkar Ayush S. | Member | Computer |
| | | Yadav Apala D. | Member | EXTC |
| | | Gopal Sakshi S. | Member | Computer |
| | | Sali Shantanu R. | Member | Computer |
| | | Deo Samruddhi S. | Member | Computer |
| 2 | Preci-Zen | More Jayparth | Team Leader | Computer |
| | | Dalavi Rahul | Member | Computer |
| | | Jar Rajesh | Member | Computer |
| | | Deokar Pallavi | Member | Computer |
| | | Pandurang karalkar | Member | Computer |
| | | Mohd. Tarique Khan | Member | Computer |

## Participation in All india level: Team 1



Team 2
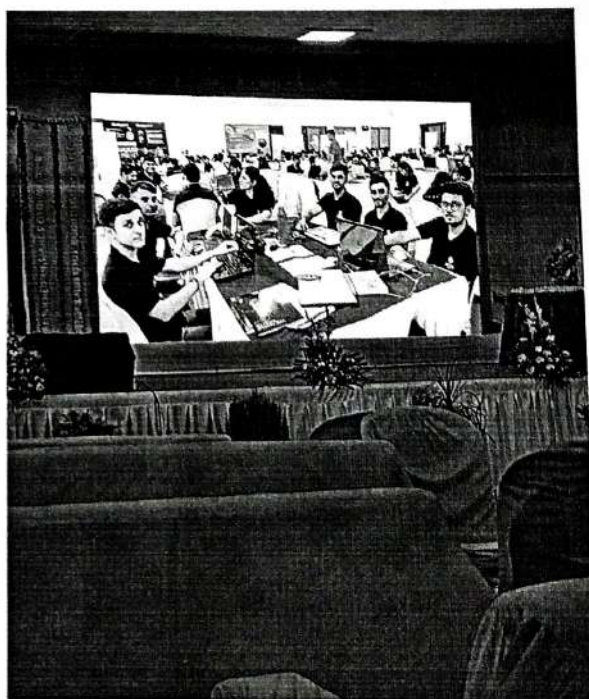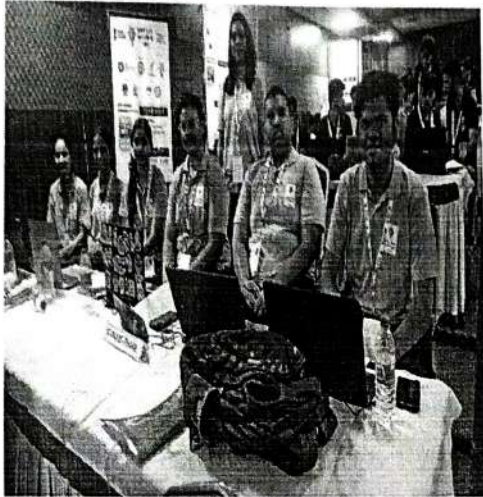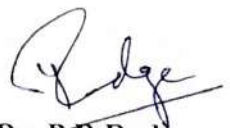
Final Round of evaluation AT SIH 2022  Grand Finale

Prof Diksha Bhave
Event Convenor

Dr. P.R.Rodge
Principal
PRINCIPAL
Shivajirao S. Jondhale
College Of Engineering
Dombivli (E) Dist. Thane

## Events: Internal Hackathon

**Venue: Seminar Hall, F Building**

Date : 14th September 2023

A hackathon is a competitive event where programmers, developers, and others involved in software and hardware development collaborate actively on software or hardware projects. It's an innovation marathon, where the participants are Incentivized to innovate to create solution to Real-Life problem. The Smart India Hackathon (SIH) is a nationwide initiative of the Government of India to provide a platform for students to solve some of the critical problems we face in our daily lives. The aim is to challenge students to think outside the box and provide innovative ideas to create intelligent applications that will help improve the lives of millions of Indians. To send the teams of students for the grand finale, Internal hackathon is conducted within the college to fulfil the required number teams. It gave students opportunity to think outside of box and helped them to develop team skills for their future ventures.

**Participating teams:**

| Team No. | Team Name /Problem statement | Members | Team Leader and mail id |
|---|---|---|---|
| 1. | Genesis/Pro Planet Person App. | Ayush Sandip Palkar<br>Adheesh Vinod Bari<br>Aarya Mahesh Jadhav<br>Sakshi Sunil Gopal<br>Ankit Budhaji Bhavarthe<br>Prasad Amol Kulkarni | Ayush Sandip Palkar<br>ayush.palkar1@gmail.com |
| 2. | Code Crunchers/ AI based generative design for hydropower plants. | Divyam Amit Singh<br>Aryan Atul Srivastav<br>Mayur Datta Shelke<br>Sakshi Pravin Kumar Tiwari<br>Nandini Srinivas Pamu<br>Sonal Vijay Tiwari | Divyam Amit Singh<br>divyamsingh1918@gmail.com |
| 3. | Hexatech/ App-Based Solution to identify and solve disease in plants/crops | Vivek Pramod Kalwar<br>Alok Indrajit Bind<br>Manish Suryabhan Prajapati<br>Aaditya Shrikrushna Revandkar<br>Kareena Uddhav Darade<br>Adarsh Neelkanth Tripathi | Vivek Pramod Kalwar<br>vivekkalwar95@gmail.com |
| 4. | Geek Bytes/ Student dropout analysis for school education | Mahesh Gajanan Wagh<br>Sumit Hanumant Chaudhari<br>Saurabh Natha Gharat<br>Prachiti Vijay Yadav<br>Akanksha Ravindra Bhagat<br>Sakshi Rupesh Sonavane | Mahesh Gajanan Wagh<br>maheshwagh979@gmail.com |
| 5. | The Bit Bandits/ Online Blockchain based certificate generation and validation system for government organization | Mitesh Rajesh Kamthe<br>Shantanu Ravindra Sali<br>Prabel Amit Pandey<br>Aditya Radheshyam Sharma<br>Vishnu Sangram Yelde<br>Neha Santosh Andhare | Mitesh Rajesh Kamthe<br>miteshkamthe@gmail.com |

| 6. | Vigilancer's/ App-Based Solution to identify and solve disease in plants/crops | Preeti Raosaheb Patil<br>Prajyot Jaideo Wankhade<br>Om berde Nandkumar<br>Sashmita Mahapatro<br>Yash Bhambre<br>Khushi Badgujar | Preeti Patil<br>preetipatil448@gmail.com |
| 7. | AI Architects/ To detect phishing domains using AI/ML. | Duhita Milind Narkhede<br>Prachi Sangmeshwar Patil<br>Shubham Mangesh Chavan<br>Subhojit Dibakar Jana<br>Suraj Ramadnya Chauhan<br>Pranali Annasaheb Ghuge | Duhita Milind Narkhede<br>duhu04@gmail.com |

**Judging Process:**

Once a team comes forward to present the solution of their problem statement before the jury panel, they are taken through a question-and-answer session where each and every member is asked questions about the project and they are assessed according to their understanding of the project. The significant factor of the judging process is how explicit yet how brief the presentation is made. The judges then assign the marks according to the above discussed factors.

- First round of evaluation, 4 judges for team evaluation (10 min per team, 7 min presentation and 3 min Q & A).
- Expert mentoring session 5-7 minutes per team.
- Second round of evaluation, 4 judges for team, evaluation based on evaluating implementation of ideas.

    Evaluation done based on the following factors:

1. Innovativeness of proposed solution.
2. Clarity and details in prescribed format.
3. Knowledge.
4. Feasibility of proposed solution.
5. Scale of impact.

**Judges Details:**

1. Mr. Mangesh Suryawanshi
   Business transformation, IBM

2. Mr. Raj Nikam
   Software Developer, Motilal Oswal Finance services LTD.

3. Dr. Uttara Gogate
   HOD Computer Engineering Department, SSJCOE, Dombivli (E)

4. Dr. Savita Sangam
   HOD Computer Engineering Department, SSJCOE, Dombivli (E)

Deep Prajwalan



Falicitation

Samarth Samaj's

# Shivajirao S Jondhale College of Engineering, Dombivli (E)
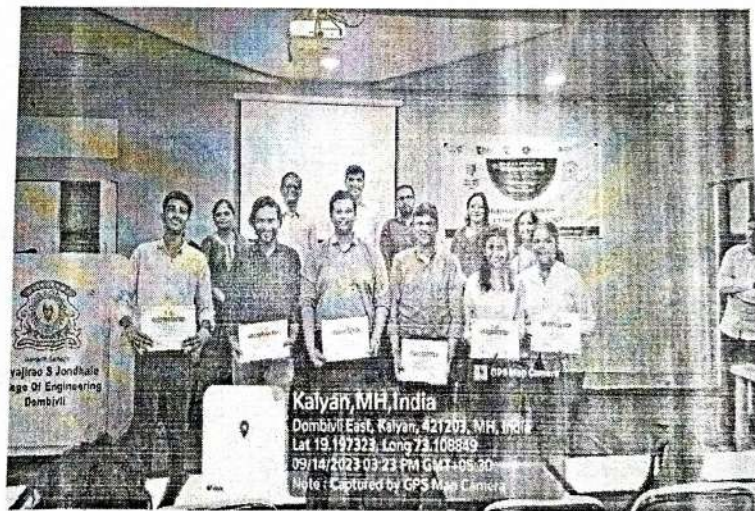### (Affiliated to University of Mumbai, Approved by AICTE)

1st rank



2nd Rank



3rd Rank

participating teams:

**Question and answer session:**
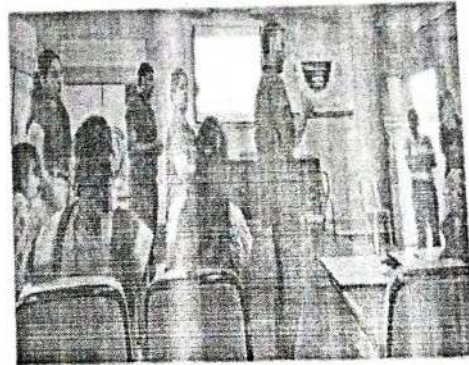


Selected teams will represent our institute in grand finale.

Prof. Diksha Bhave
**Event convenor**

Dr. P.R.Rodge
Principal

PRINCIPAL
Shivajirao S. Jondhale
College Of Engineering
Dombivli (E) Dist. Thane

## BEST PRACTICE 2:

**Title of the Practice: Student Research Paper Publication and Innovation**

### Objective:

- To inculcate research culture among students to build pathway for Higher Studies and Startup India campaign.
- To improve thinking capability and develop engineering skills.
- Provide opportunity to students to work in team.
- To allow students to understand research practices and methodology.
- To encourage Students to publish their research in academic journals or present at conferences, which gives them the opportunity to share their findings with a wider audience and contribute to the academic and professional community.

### The context:

Our institute is affiliated to university of Mumbai. As per university syllabus final year students have to complete one project. Our institute made a policy that final year students should undertake a research project which involve latest innovations to solve the challenges in our country. Students have to study this paper and try to implement. Students should understand research methodology and try to publish paper.

### The Practice:

To encourage Final year students to get involved in engineering research and possibly persue higher studies, we ask them to select some research papers of their interest. They have to understand concept and overview of paper, its equation, code, figures if any and regenerate its result/solution. Once they achieve result, they need to give presentation in team and have to publish paper on it. We encourage them to participate in various project competitions or national conferences. This entire process help student to develop engineering skills that will serve them for their entire careers, including ability to work in teams. With this they also understand to find design solutions that address real world need. By fostering this environment of research and innovation, our institute is giving students a strong foundation to succeed in both academic and professional pursuits. Their work could go on to contribute meaningful innovations in key areas, which is essential for addressing the challenges facing India and world today.

### Evidence of Success:

Some of Paper published in year 21-22 ,22-23 and 23-24 are evidence of success.
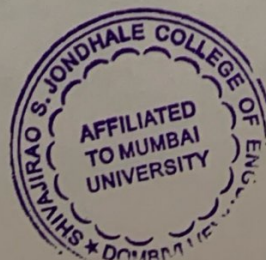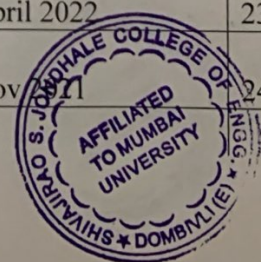
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University of Mumbai, Approved by AICTE)

Number of papers published per teacher and their students group in the Journals the year 21-22

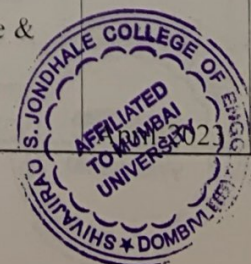| Title of paper | Name of the author/s | Name of journal | Year of publication | ISSN number |
|---|---|---|---|---|
| Blockchain Based E-voting System Using Smart Contracts | Prof.Devita Durge | IJRASET | March 2022 | 2321-9653 |
| Pose Trainer : "An Exercise Guide and Assessment in Physiotherapy | Prof. Ashwini Patil | IRJET | March 2022 | 2395-0056 |
| Diabetes Prediction System Using Gaussian Algorithm | Prof. Urajashree Patil | IJARSCT | April 2022 | 2581-9429 |
| E-Vehicle organizing App(G-Taxi) | Prof. Diksha Bhave | JETIR | March 2022 | 2349-5162 |
| Performance analysis of stock price prediction model using LSTM & BiLSTM | Prof. Diksha Bhave | IJRASET | April 2022 | 2321-9653 |
| Mining Safety System | Prof.Samita Patil | IJRASET | April2022 | 2321-9653 |
| Agremart- Online revenue for farmers | Prof. Reena Deshmukh | IJRASET | March 2022 | 2321-9653 |
| Agriculture 1O1 | Prof. Reena Deshmukh | IJRASET | March 2022 | 2321-9653 |
| Cognitive Visualization | Prof. Reena Deshmukh | IJRASET | April 2022 | 2321-9653 |
| Visual Desktop Assistant | Prof. Deveshree Wankhede | IJRASET | March 2022 | 2321-9653 |
| Speak To Classify Your Notes | PRof. Poonam Narkhede | IJRASET | March 2022 | 2321-9653 |
| Smart shopping system using RFID | Prof. Deveshree Wankhede | IJRASET | March 2022 | 2321-9653 |
| Human Motion Imitation using Generative Adversarial Networks | Prof. Poonam Narkhede | IJRASET | March 2022 | 2321-9653 |
| Automated Social Distancing and Face Mask Detection System | Prof. Pallavi Chandratre | IJRASET | April 2022 | 2321-9653 |
| Face and Eye Detection for Interpreting Malpractices in Examination Hall | Prof. Pallavi Chandratre | IJRASET | April 2022 | 2321-9653 |
| AUCTIONAIRE A Blockchain Based Online Auction System | Prof. Pallavi Chandratre | IJRASET | April 2022 | 2321-9653 |
| SMART SURVEILLANCE SYSTEM | Prof. Manisha Sonawane | IJCRT | April 2022 | 2320-2882 |
| Diabetes Prediction using Machine Learning | Dr.Uttara Gogate | IJAREM | Nov 2021 | 2456-2033 |
| Survey On Classification | | | | |

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University of Mumbai, Approved by AICTE)

| Learning Cnn Strategy For Voice Disorder Classification And Detection | Dr.Uttara Gogate | Ijcrt | July 2021 | 2320-2882 |
|---|---|---|---|---|
| Used Car Price Prediction Using Different Machine Learning Algorithm | Prof. Pallavi Bharambe | Ijraset | April 22 | 2321-9653 |
| Student Career And Personality Prediction System | Prof. Pallavi Bharambe | Ijarsct | April 22 | 2581-9429 |
| Underground Cable Fault Detection Using Arduino | Prof Sanket Singhania | Ijcrt | July 2021 | 2320-2882 |
| Detecting Diabetic Retinopathy In Fundus Images Using Combined Enhanced Green And Value Planes (Cegvp) With K-Nn | Prof. Minal S. Hardas | International Journal Of Advanced Computer Science And Applications; (Ijacsa) | June 2022 | 2156-5570 |

**Number of papers published per teacher and their student groups in the Journals during the year 2022-23**

| Title of paper | Name of the author/s | Department of the teacher | Name of journal | Year of publication | ISSN number |
|---|---|---|---|---|---|
| Share Market price prediction using AI and Sentiments | Dr. Savita Sangam | Information Technology | International Journal of Novel Research and Development | January 2023 | 2456-4184 |
| Smart Bicycle Sharing System | Dr. Savita Sangam | Information Technology | International Research Journal of Engineering and Technology | May 2023 | e-ISSN: 2395-0056 p-ISSN: 2395-0072 |
| Twitter clone - using Blockchain | Arti M Devmane | Information Technology | Internatinal Journal of Research & Analytical Reviews(IJRAR) | April-2023 | E-ISSN:2348-1269 P-ISSN:2349-5138 |
| Decentralized RTC App- (VOX) | Deepali Narkhede | Information Technology | International Journal for Scientific Research & Development(IJSRD) | April-2023 | ISSN(online) 2321-0613 |
| Review on Evaluation of Stroke Prediction Using Machine Learning Methods | Dr. Uttara Gogate | Computer Engineering | International Journal for Research in Applied Science & Engineering Technology (IJRASET) | 2023 | ISSN: 2321-9653 |

Samarth Samaj's
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| Title | Author | Department | Journal | Date | ISSN |
|---|---|---|---|---|---|
| Review on Evaluation of Stroke Prediction Using Machine Learning Methods | Dr. Uttara Gogate | Computer Engineering | International Journal of Research and Analytical Reviews (IJRAR) | June-2023 | E-ISSN 2348-1269 P- ISSN 2349-5138) |
| Advanced Document Scanner Using Computer Vision | Reena Deshmukh | Computer Engineering | International Journal of Research and Analytical Reviews (IJRAR) | April 2023 | E-ISSN 2348-1269 P- ISSN 2349-5138) |
| Secured Chatting App with Block Chain Technology | Dr. Renuka Deshpande | Computer Engineering | International Journal of Current Science | March 2023 | ISSN : 2250 - 1770 |
| Life Expectancy Using Data Analytics | Dr. Renuka Deshpande | Computer Engineering | International Journal for Research in Applied Science & Engineering Technology (IJRASET) | April 2023 | ISSN : 2321-9653 |
| HACKERRANK AUTOMATION | Pallavi Chandratre | Computer Engineering | International Journal of current Science (IJCSPUB) | March 2023 | ISSN: 2250-1770 |
| Decentralised Auto Hailing using Block Chain | Deveshree Wankhede | Computer Engineering | International Journal of Research and Analytical Reviews (IJRAR) | April 2023 | E-ISSN 2348-1269 P- ISSN 2349-5138) |
| Self-Driving Vehicle Using Artificial Neural Network | Dr. Saroja. T. V | Computer Engineering | International Journal of Research and Analytical Reviews | April 2023 | E-ISSN: 2348- 1269. p- ISSN: 2349- 5138 |
| AI-Helper Image Caption generator using Machine Learning | Dr. Saroja. T. V | Computer Engineering | International Journal of Research and Analytical Reviews | April 2023 | E-ISSN: 2348- 1269. p- ISSN: 2349- 5138 |
| Best Warehouse ERP with POS and Invoicing Application | M. R. Gorbal | Information Technology | International Journal of Research and Analytical Reviews (IJRAR) | April 2023 | E-ISSN 2348-1269. P- ISSN 2349-5138 |
| IMAGE STYLE TRANSFER USING CNN | M. R. Gorbal | Information Technology | International Journal of Research and Analytical Reviews (IJRAR) | 2023 | E-ISSN 2348-1269. P- ISSN 2349-5138 |
| Cotton Seed for Biodiesel: A Review | Dr. Pradnya K. Ingle | Chemical Engineering | International Journal of Green Chemistry | | ISSN 2582-5925 |
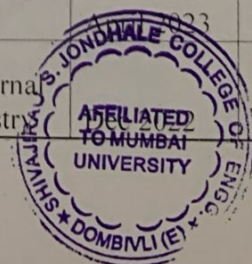
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University of Mumbai, Approved by AICTE)

| Crypto Analyzer | Kirti Rajadnya | Information Technology | International Research Journal of Engineering and Technology | Mar-23 | E-ISSN-2395-0056 |
|---|---|---|---|---|---|
| Plant Leaf Disease Detection Application | Kirti Rajadnya | Information Technology | International Journal of Research and Analytical Reviews (IJRAR) | April-2023 | E-ISSN-2348-1269 |

## Number of papers published per teacher in the Journals during the year 2023-24

| SR. No. | Title of paper | Name of the author/s | Department of the teacher | Name of journal | Year of publication | ISSN number |
|---|---|---|---|---|---|---|
| 1 | A Review On Salt Effect On Extraction Of Acetic Acid And Water | Dr. Pradnya K. Ingle | Chemical Engineering | IJERA May, 2024 Vol. 14, Issue 5 | 2023-24 | ISSN: 2248-9622 |
| 2 | A Review On Manufacturing Of Wiper Blade For Car Windscreen Using Graphene | Dr. Pradnya K. Ingle | Chemical Engineering | IJERA May, 2024 Vol. 14, Issue 5 | 2023-24 | ISSN: 2248-9622 |
| 3 | A Review On Kinetics Esterification Of Ethylene Glycol With Acetic Acid By Using Cation Exchange Resin Catalyst | Prof. Manisha S. Gonate | Chemical Engineering | IJERA,, Vol. 14, Issue 1, January, 2024 | 2023-24 | ISSN: 2248-9622 |
| 4 | Process Intensification & Simulation For Hydrolysis Of Sucrose | Prof. Manisha S. Gonate | Chemical Engineering | IJERA, Volume 14, Issue 2, February 2024 | 2023-24 | ISSN: 2248-9622 |

Dr. P.R.Rodge
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