



# ATHARVA EDUCATIONAL TRUST'S ATHARVA COLLEGE OF ENGINEERING

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## E-CELL INAUGURATION 2017-18

5<sup>th</sup> of October 2017,  
10.00 am to 1.00 pm,  
Atharva College of Engineering.

We Atharva E-Cell conducted our inauguration of E-Cell, on 5<sup>th</sup> of October 2017. Our chief guest for this event was Dr T. Prasad who is an associate professor of organizational behaviour of National Institute of Industrial Engineering (NITIE), Mr Ronald Fernandes Sir - the head of National Entrepreneurship network, Mr Nishikant Khandle - founder of Agnee Adventures and Mr Ashish Haldar - founder of Apna Book wala.



The inauguration commenced with felicitation of the guest speakers by our honourable Principle Sir, Dr Shrikant Kallurkar.

We started with playing the entrepreneurship jeopardy game, which had some cash prize of 500 rupees for students who answered the maximum number of questions. It was a fun event. And students thoroughly participated in it.



Next we started with “What’s my story?” session and invited the founder of Agnee Adventures to share his story with us, he explained about the challenges we face in the industry nowadays, which were fierce competition, limited resources, budget constraints, finance management and etc. He also explained the solutions for the same as by working smart and studying your competitors very well. And the key motto he said was about never quitting and leaving your work.



Next came, Dr T Prasad Sir, who motivated students and shared some gifts with them like giving away Hind Swaraj book written by Gandhi. And motivated students to take entrepreneurship as an idea and said by the end of the year, at least one start-up from one college should be required, so that we can have many start-ups in our country.



Mr. Ronald Sir - head of NEN, also explained us about the E-week event which is going to be held in the month of February in our college, and motivated the students to be the key parts of the events which are going to be organized by E-cell in future.



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Founder of Apna Book Wala, Mr Ashish Halder told us about the story of his success, how he got the idea of the start-up and how he reached a whole new level of his success by taking part in various start-up ventures like Nidhi and how he was selected as one of the top twelve start-ups of India.



The event was finally concluded by a small presentation by the E-cell committee which explained the students about the working of the committee.



## IDEA GENERATION

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12<sup>th</sup> February, 2018.

Timings : 9:00 am – 1:00 pm

Atharva College of Engineering.

Ember Entrepreneurship Cell of Atharva College of Engineering conducted an Idea Generation workshop under the guidance of Prof. Mohan Kumar – Ember E-Cell Faculty Head, on the occasion of E-WEEK'18 highlighting and inspiring young entrepreneurs and their creative mindset.



This workshop was attended by a great number of students. It commenced by Prof. Mohan Kumar's address to the students highlighting the need and importance of an entrepreneurial mindset.

The main motive behind organizing this workshop was to inculcate a creative mindset in students, to develop their self confidence and possibly, to give wings to their out of the box business ideas.





The students were seated in groups of four and every group was provided with a chart paper wherein they were told to jot down their respective business plans. Everyone dove into their discussion with great gusto and ended up thinking pretty interesting ideas.



After the initial discussion, each team was told to pitch their respective ideas before the present masses. Many students actively participated and questioned the validity of the ideas presented.



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They also came forth with various implementable solutions to the problems presented by some ideas.

The workshop completed with Prof. Mohan Kumar's address to the students specifying various ways to generate funds like bootstrapping, competitions, etc and the importance of good convincing skills. He further highlighted the importance of a sound and able business plan and the will to never give up on oneself.



All the students who attended the workshop were greatly inspired and vowed to actively work on their respective ideas in the near future.

## ADOPT A VILLAGE

Date 8<sup>th</sup> February 2018,  
Kelwa Village(Palghar).



On 16<sup>th</sup> of January 2018, we conducted an entrepreneurship awareness drive as well as we undertook the mission of adopting a village. We visited the nearby villages at Kelwa and interacted with the villagers regarding our motive behind this social activity. It was an initiative taken by Atharva Ember E-cell to introduce entrepreneurship ideology among the villagers and motivate them to do small scale business which can help them to earn a living.





The key motto of our visit was to do 'Shramdan' in the village which is a way of contributing to the greater well being of the people, or to be precise, it is a voluntary contribution through physical effort which we had taken on behalf of the villagers.



There were around 60 houses in the village and we tried to visit some of the houses and talk to them about their lifestyle and the way of living.





Most of the villagers go to work at local factories and companies nearby as labourers; the woman in the house usually stays back home to do their chores. However our committee

motivated the women in the village to start some small scale business in their houses itself, like creating their own papad selling business and pickle making which has been seen as a huge success in starting business opportunities for woman in the villages.



While talking with the villagers we learned that they still haven't got the LPG Cylinder connections as they still cook their foods in fire woods or coal which is quite harmful for their health and environment. As a solution to their problem, we suggested the use of solar cookers and electric stoves which can easily cook their food efficiently without wasting any fuel.



Also the village faces a two or three hours of load shedding, an installation of solar panels was suggested which can be a onetime investment. But will surely serve as long time alternative for generating electricity.





Tourism can be an actual success near this village as the village is situated near the Kelwa beach and a temple, even though the tourism is currently one of the many incomes for the villagers, but the need to establish a successful tourism scheme is necessary. So we suggested the establishment of various resorts and restaurants which can actually attract as many tourists as possible, also an investment in starting water sports and rides near the village can make the Kelwa beach as a hot spot for tourist attraction.



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Talking with various shopkeepers and business persons who are actually running a few resorts and shops told us that the villagers work as labourers and workers due to their illiteracy rate. Even though there is an establishment of school in the village, the villagers are still deprived of higher education due to non-availability of higher secondary level institutes nearby. Hence forth the villagers are forced to do mainstream work like selling vegetables and rice at a very low margin rate as per the market.





The major initiative taken by the gram panchayat of the village is to initiate a guest house for tourist coming to visit the beach and the temple. Keeping in mind the health of the villagers, we also suggested them to open a hospital nearby which can help the villagers themselves. The main income of the farmers in the village is by selling crops and vegetables, betel leaves are found in abundance, as a result, the village can serve as a major betel leaves seller. Coconut selling business is currently booming in the village, due to its geographical location it will be beneficial to open coconut oil making factories and industries nearby which will serve as a



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major employment for the villagers.

It was a great experience for us to share, as we not only learned so many new things about the villagers. But the happiness and the moment of pride that we felt talking to them and helping them in setting up their business and kindling a hope for a better future was truly marvellous.

## PANEL DISCUSSION

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14<sup>th</sup> February, 2018

Atharva College of Engineering.

Ember E-Cell of Atharva College of Engineering conducted a “Panel Discussion” session on 14<sup>th</sup> of February from 10:00 am to 1:00 pm.



The panellists for the event were Mr. Krishnakumar Devnally (Director of Mpower Solutions), Mr. Rakesh Sharma (Founder of Zymin-a recent fitness start-up) and Mr. Vishal Bhargava (Smartway Energy) and Mr. Mohan Kumar (Ember E-Cell Faculty Head of ACE).

The hosts for this event were our E-Leaders – Ms. Purvi Prabhu and Mst. Prathamesh Desai.

The topic for discussion was “Job v/s an entrepreneur”.





The following points were discussed about in the discussion.

### **1] Reason for choosing entrepreneurship over jobs**

The panellists agreed that passion was the driving force behind them wanting to choose entrepreneurship over jobs. Although they did fail initially, but their passion and the will to do something different is what made them the successful entrepreneurs of today.

### **2] Necessity of evolution in a start-up**

Any business market is dynamic. Since the customers always crave for the next best thing, start-ups are only left with two choices – either they evolve or the market forces them to evolve. Nevertheless, it is necessary for an entrepreneur to be aware of the changes and keep on evolving his strategies with the need of the times.

### **3] What is important – idea or execution?**

Both idea and execution are equally important. An idea should be path breaking, profitable and impactful. The key point is to keep it simple. And because, any successful venture comprises of 1% idea and 99% execution.

### **4] High salaried market jobs v/s entrepreneurship**

It was stated that high salaried jobs are a myth. Because jobs give you stability and security and an entrepreneur's journey is wild and insecure, Rakesh Sharma stated that money should not be a driving factor. While all agreed with the former, the latter was refuted by Vishal Bhargava in





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good humour, who stated that money should always be the driving factor as it motivates people to work better and improve.

### **5] Difference between US and Indian start-ups**

USA is a business friendly country. Entrepreneurship is ingrained in their culture.

India is a developing country. The Indian start-up ecosystem is improving greatly, because the cost of starting a start-up in India is comparatively less than that compared to USA. Also, the opportunities that Indian markets offer is unparalleled.

### **6] Investor importance in a start-up and their experiences**

Though the involvement of investors play a pretty important role, bootstrapping is highly recommended because it leaves you free to develop an idea according to your own specifications. Because as soon as you get an investor, you suddenly find yourself having a job since, he'll demand a return on investment.

The key point is to perfect your product and bootstrap initially, and have faith in it. Approaching investors should always be the last option, because you can't expect an investor to invest in your product unless and until you believe in it.

### **7] Need of new start-ups in already established sectors**

Start-ups can be started in already established sectors too. All an entrepreneur needs to do is to find the difference and work on it. Because any business that has grown, has disrupted like minded old businesses.



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At the end, the panellists gave valuable advice to the students. In their address they told the aspiring entrepreneurs to go with the flow. Validate your concept and aim it at a higher level step by step. They also told them to start participating in competitions in order to give them an idea of a start-up life. And lastly, they advised the students to follow their passion and to sell their story, look out for long term impact and work to create your own legacy.



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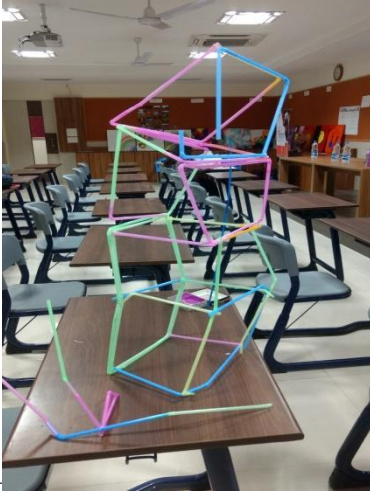
**NEN Workshop Day 1:**

NEN Workshop which was held at Thakur College of Engineering Kandivali East Day 1, was a workshop held for the core E-cell head leaders, which had basically helped them to have the right vision towards being the successful leader or an organization in their respective campus. The speakers of the session were Ankit Machhar and Ronald Fernandez.

The first session which was the Introduction and Icebreaker round, in which the respective e cell leaders were told to form a group with other respective e cell leaders, the key agenda of this was to introduce ourselves, to the other core committees and to have a basic introduction with one another to break the ice. The next session was the Pre-Assessment Test in which the e cell leaders were given a few objective questions to solve, so that the Wadhvani foundation can know the basic skills of the e leaders. They also explained the Wadhvani Way of building Entrepreneurship on campus and the role of E leaders. They say Wadhvani Way is a basic structured form in which the E leaders are learning the whole curriculum in different programs in Basic programs, advanced programs and extended practicum. Also they explained the core functions of E leaders that is to build, to manage and to Engage, they explained how an E cell works, its introduction and how to form a core committee in your college.

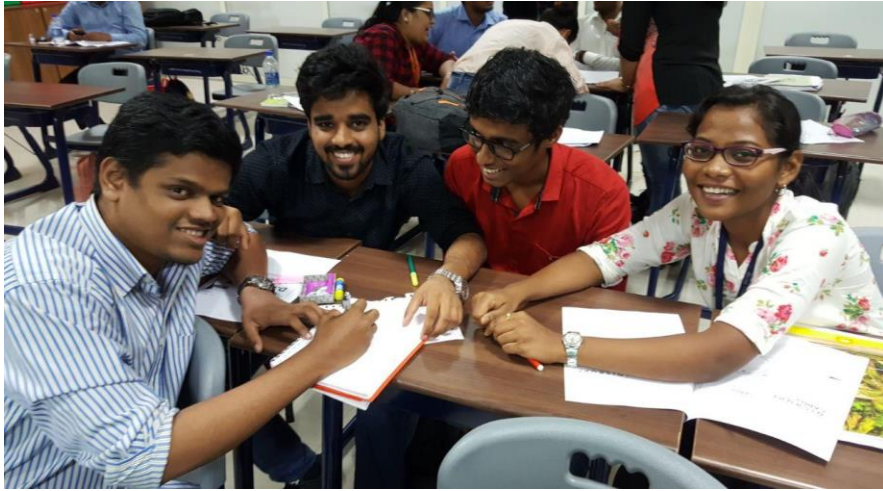
There was an introduction session for using 'Learn wise' it is basically an online website on which the E cell leaders can keep the track of progress reports of their committee, the more detailed information will be given in the next session. Then there was an activity based on leadership skills, in which each of the e leader were told to share one of their leadership experience in their life. Also there was an activity of determination of your leadership style, based on which each of them were given some objective based questions to solve and on the result of their score, they were segregated into Task focused and People focused style of leaders. One of the main activities which were held was the Straw and Pin Session, in which everyone was segregated in groups, from each of these teams, three leaders were made, on the guidance and leadership of each of these leaders respectively, the teams have to make a structure out of the straws and finally the team members experiences and feedbacks were noted down in under the guidance of each leaders, which is to determine whether the leader is democratic, autocratic or laissez faire leader. In the end various E events were explained, also this year's topic 'Ideas for change-Solving various problems' for E week was introduced.





The second day of the session started with the basic recap of the activities which were held on day one, next the practicum round started in which the e leaders were already divided into five groups and each of the groups were assigned one activity which they need to present and explain in front of the others, basically they need to have a smooth processing of activities. The first activity which was played was Entrepreneurship Jeopardy, which is a quiz game. Questions based on various topics like Tech, History, Heroes, Buzz, Jargon were decided to ask. Each team needed to bid certain points for the question and if they get it right they get marks and if not they lose.





Next activity played was the idea box, in which each team needs to make a product out of a box, by sticking notes on it explaining the products features, two members out of each team needs to present the product in front of the others and accordingly winner product is decided.

The third activity was kind of innovative one and which was named as D.I.S.R.U.P.T, it is basically an acronym of D-Derive, I-Include, S-Separate, R-repurpose, U-Unite, P-Personalize, T-Transplant. An image is flashed in front of the others, and the task of each team was to jolt down maximum inventions they can make out of it and the team which has maximum ideas wins. Similarly for each trigger we need to repeat the procedure. Fourth activity was Investor hunt, where each of the team needed to actually present their idea in front of the investors, to explain their pitch in a given limited time. Based on this, the investor decides whether they need to invest in it or not, also whether they need to negotiate the stakes in it. The fifth and the last activity was Venture Voyage, in which it was explained how a start up is created, what steps usually should be taken to make a successful start-up. Also they explained the whole process of LEARNWISE PLATFORM and how to use it.



Finally the session was ended with a short wrap up speech by Ankit Sir and Ronald Sir. Certificate of Participation was given to each of the e leaders and contacts were created.

The basic ideology of these sessions were to make the future e leaders and to train them, so that they can train the students in their campus and also motivate and encourage various start-up's and ventures in their institute. To not only learn, but to implement the practical way of innovative thinking in their skills were the key factors learned in the Day 1 Session of NEN Workshop.





## Entrepreneurship Drive

**12 October – 13 October,  
Atharva College Of Engineering ,  
Mumbai.**

The Entrepreneurship Drive was conducted by E-Leaders . The Main motive behind this was to spread awareness about Entrepreneurship and E-cell.



This Drive was conducted in each class to make first year and second year understand the importance about entrepreneurship and how it could be useful to them.





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We also briefly explained what is E-Cell and how it can help them with their ideas and all other aspects. We also made them aware that our E-Cell is networked with NEN (National Entrepreneurship Network).

## EMBER E-CELL PROJECTS

### 1. PRIDE APP



This app acts as an interface between farmers and consumers. The basic idea behind this project is to create a platform where consumers can communicate directly with farmers and obtain fresh and pesticide free vegetables, fruits and other products at cheaper rates.

### Features: -

- User end: -
  - Login/Sign up
  - List of farmers, the products and their selling price
  - Choices of vegetables, fruits and grains
  - Selected items display in cart
  - Payment modes: cash on delivery or e-wallet
  - Feedback and rating

### Advancement: -

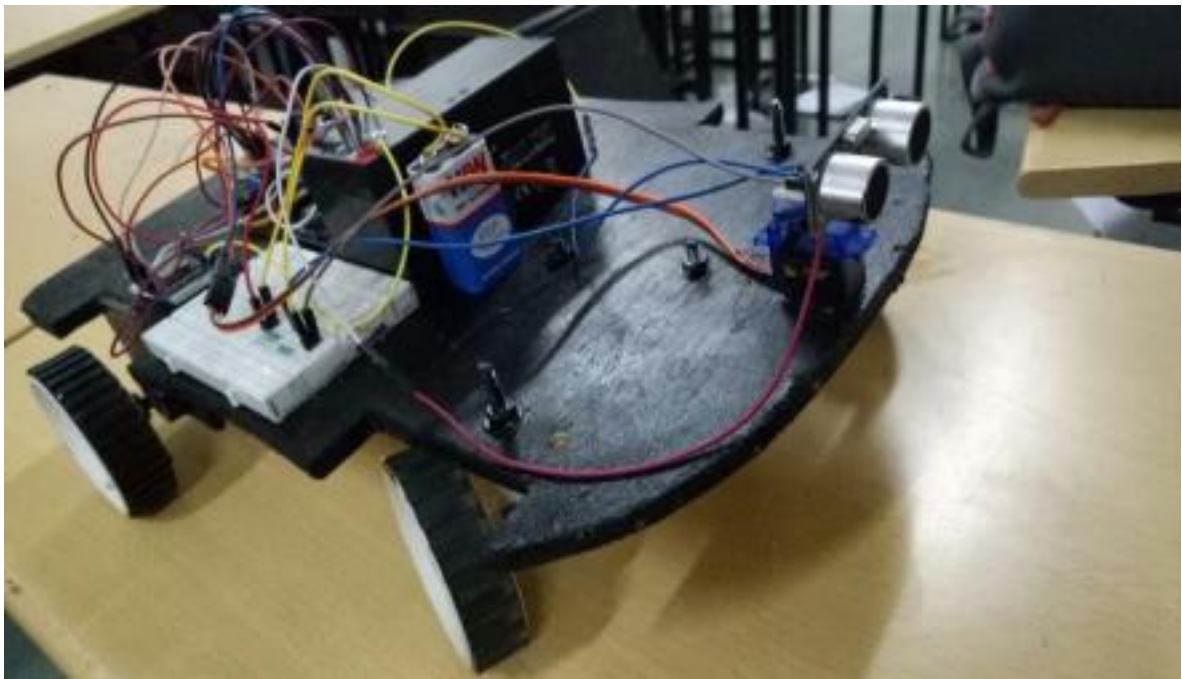
- Chat system
- Increasing choice of items
- Tracking exact location of each farmer

### Project members: -

Sanjana Gosavi

Hrunav Rajurkar

## 2. MAD-C





MAD-C is an automatic modern driverless pattern follower car. When a pattern is drawn on the app, the car will follow the pattern and move according to the pattern wherever the car is. This car works on Wi-Fi and is driverless. If the map is downloaded and stored in the app, it will follow the map accordingly.

### **Project members: -**

Faizan Rizvi

Sandeep Vishwakarma

### **3. DIGIMETRE**



Digimetre is a digital fuel tank which will show how much petrol is there in tank (in Litres). All the values will be in digital format. It will also show how much petrol is poured in the tank at petrol pump in order to avoid frauds. It will also provide the mileage showing how much the vehicle can be driven in the remaining petrol

**Advancement: -**

If electric cars are used then the remaining or used battery will be shown.

**Project members: -**

Nikhil Jain

Jasim Mallick

**4. DARWIN**



Darwin is a bot used for plantation. The bot can do the following task: -

- Spraying pesticides
- Drilling the soil
- Seeding mechanism
- Watering

This bot can track the path given to it or stored in it. Once the path is given, the bot will start moving and stop after every 1 meter where it will do the

drilling, seeding and watering and then start moving again until it completes its path. For this no human is required, the bot can be handled manually by controlling through app. Even a camera is installed. When obstacles are found it will stop and divert its path.

**Project members: -**

Kshitij Zodape

**5. STAB**



STAB is a Surveillance Transparent Arduino based Bot. This bot consists of a ball within another ball. The inner ball won't move at all, its only the outer ball that moves. The inner ball contains camera and circuits. The bot can move and can be controlled using controllers. These bots can be used for doing proper surveillance in areas before sending armies. The camera will send the live status on the screen which can be installed on any army group leader's glove.





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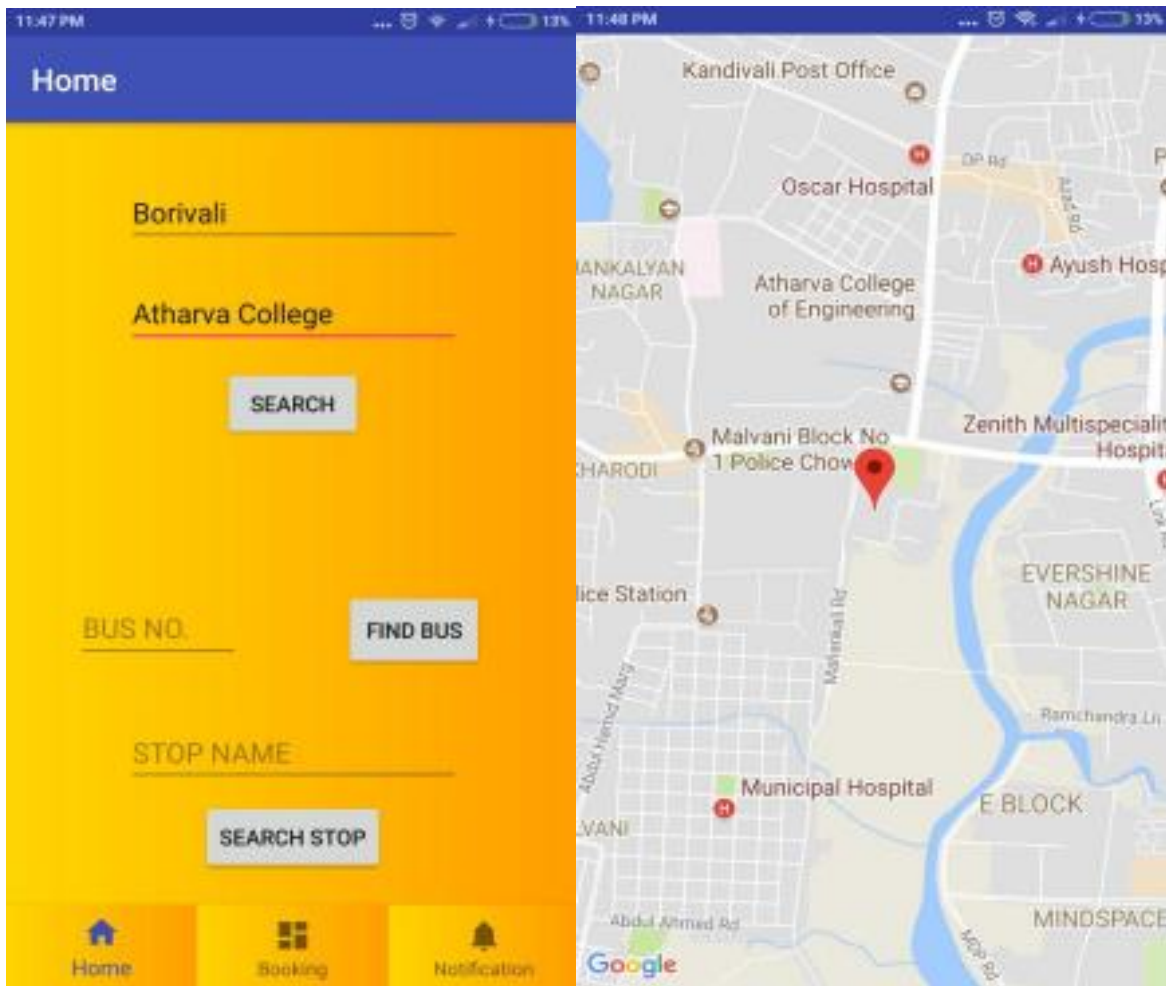
## Project members: -

Abhishek Patil

Karan Gohil

Kunal Raul

## 6. TRACK MY BUS



The purpose of this app is to make travelling easy for the people using bus service. This app provides bus timetable, bus stops information, routes used by the buses and number of stops till destination. Prior notifications are given

about bus arrival time and delays due to traffic, thus making it convenient for passengers.

**Features: -**

- Login/Sign up
- Bus timetable
- Real time bus tracking
- Bus stops information
- Bus routes and number of stops till destination
- Ticket booking and pass renewal

**Advancement: -**

- Customized notification for bus at a particular stop for certain time specified.
- Real time tracking for up to 3 nearest buses going to same destination.
- Time estimation to reach destination using google maps checking traffic on route.

**Project members: -**

Kasturi Kolambkar

Hrunav

**7. IDEA PITCH**



Idea pitch is a special hydropower plant. This plant can be installed at every small natural height difference in a river. A space is excavated next to the water in which prefabricated parts are installed. The core of the turbine is then lowered into basin. The water is then passed through turbine. The turbine starts operating 24/7. The turbine uses a natural whirlpool to generate energy making it fish friendly. The low pressure in turbine lets the fish pass through unharmed. The generator is only moving part reducing failure and maintenance when turning it produces energy 24/7 to power up to 60 homes per turbine. This turbine is designed to empower rural communities all over the world.



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**Project members: -**

Hrunav Rajurkar

Yash Nikam



**Konnections**

<http://www.konnectionsindia.com/>



**Getdeals**

[www.getdeals.co.in](http://www.getdeals.co.in)



**VenTech**



**Eototech**

<http://eoto.tech/>



[Apnabookwala.com](http://Apnabookwala.com)



**Websiteengineer**

<https://www.websiteengineer.in>

**Electrogadget**

<http://electrogadget.in/>

**EventsShatra**

**Techpirates**





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## **Events Conducted by Ember Entrepreneurship Cell in Year 2018-2019**

### **1.How to pitch Ideas?**

Date : 10<sup>th</sup> September 2018 Time: 11:00am to 1:00pm



Ember E-Cell conducted the event " How to pitch ideas? " The event started with Prof.Amruta Mhatre encouraging students to be an entrepreneur and innovator. The guests for the events were, Atharva College of Engineering Alumni students:

- 1.Abhimanyu Yadav,C.M.O,Website Engineer
- 2.Ashish Haldar,C.M.O, Apna Bookwala
- 3.Amit Padhy

### **2.Front-End Web Development Workshop**

Date: 10<sup>th</sup> October 2018 Time: 9:00am to 5:00pm

Ember E-Cell conducted the event "Front End Web Development Workshop ". The aim of the workshop was to encourage students to be an entrepreneur and innovator by creating web applications. The speaker for the workshop was Prof.Ram Singh from Learning IT company.

### **3.Entrepreneurship Awareness Drive**

Date: 29<sup>th</sup> October 2018 Time: 10:00am to 1:00pm

Ember E-Cell conducted the event "Entrepreneurship Awareness Drive ".The main aim of the event was to spread awareness of Entrepreneurship in aspiring students. The speakers for the event were:

- 1.Divyesh Rajput,C.E.O at K-Connections
- 2.Krishnakumar Devnally,Director at M-Power Solutions

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3.Manjiri Vishwekar,C.E.O at Teknowtasc

## 4.Entrepreneurship Jeopardy

Date: 29<sup>th</sup> October 2018 Time: 1:00pm to 2:00pm

Ember E-Cell conducted the event "Entrepreneurship Jeopardy". The main aim of the event was to test student knowledge about entrepreneurship and to spread awareness of Entrepreneurship in aspiring students. A quiz was conducted and the winners of the quiz were awarded cash prizes.

## 5. Startup India Maharashtra Yatra

Date: 3<sup>rd</sup> November 2018

Ember E Cell Student Harshraj Pardhi was awarded 3<sup>rd</sup> prize of Rs. 25000 for his project on healthcare in the grand finale of Startup India Maharashtra Yatra conducted by Maharashtra state innovation society in Nagpur.

#startupindia					
Startup India Maharashtra Yatra					
Grand Finale Winners					
3 <sup>rd</sup> November 2018					
Sector	Prize	Cash Prize	Name	Gender	Bootcamp Location
Agriculture	Startup Hero of the State	INR 1,00,000	Abhinandan R Patil	Male	Baramati
Agriculture	1st Prize	INR 75,000	Arjun Devrankar	Male	Akola
Agriculture	2nd Prize	INR 50,000	Mukesh Bisane	Male	Nagpur
Agriculture	3rd Prize	INR 25,000	Surendra Kalbande	Male	Akola
Healthcare	1st Prize	INR 75,000	Deepak V. Sawant	Male	Baramati
Healthcare	2nd Prize	INR 50,000	Priyanka Patil	Female	Baramati
Healthcare	3rd Prize	INR 25,000	Harshraj Pardhi	Male	Thane
Social	1st Prize	INR 75,000	Dr Vaishali Kulkarni Bajwa/ Dr Arjun Singh Bajwa	Female	Thane
Social	2nd Prize	INR 50,000	Nikesh Ingle	Male	Nasik
Social	3rd Prize	INR 25,000	Vaibhav Dasharath Madhekar	Male	Solapur
Sustainability	1st Prize	INR 75,000	Swagata Prashant Kawle	Female	Chandrapur
Sustainability	2nd Prize	INR 50,000	Madhur Rathi	Male	Akola
Sustainability	3rd Prize	INR 25,000	Yogesh Laxmirajam Bhandari	Male	Solapur
Technology	1st Prize	INR 75,000	Ashish Dilip Chandwadkar	Male	Nasik
Technology	2nd Prize	INR 50,000	Amit Manore	Male	Jaigaon
Technology	3rd Prize	INR 25,000	Mithilesh Hinge	Male	Nagpur
Sustainability	Top Women Entrepreneur	INR 50,000	Priyanka Sarwade	Female	Nagpur
Sustainability	Top Women Entrepreneur	INR 50,000	Pooja Badamkar	Female	Baramati
Healthcare	Top Women Entrepreneur	INR 50,000	Manisha Kulkarni	Female	Nagpur

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## 6.IDEA BOX

Date: 12<sup>th</sup> March, 2019. Time : 9:00 am – 1:00 pm

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Ember Entrepreneurship Cell of Atharva College of Engineering conducted an Idea Box under the guidance of Prof. Mohan Kumar – Ember E-Cell Faculty Head and Mr.Ashish Haldar,Co-founder ApnaBookWala on the occasion of E-WEEK'19.



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## **7. Elevator Pitch**

Date :13th March 2019 Time: 11 am to 1pm.

Atharva College of Engineering organized and conducted an event – **Elevator's Pitch** as one of the major event of the **E-WEEK 2019** festival celebrating young and budding entrepreneurs.

The honourable guests for this event were Mr.Gaurav Mishra – founder of Navyuvak Entrueneurs and Mr.Meet Shah -- Program Manager,Navyuvak Entrueneurs, Dr..S.P.Kallurkar- Principal,Atharva College of Engineering,Prof.Mohan Kumar,Prof.Deepali Maste and Prof.Garima Gurjar, Faculty mentor,Ember E-Cell.

## **8. Internfair**

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Date:15<sup>th</sup> March 2019, Time: 9:00am – 5:00pm

The companies and their company representative were:

- 1.Learning IT- Mr.Ram Singh
- 2.KConnections- Mr.Divyesh Rajput, Mrs Upasna Rajput
- 3.ApnaBookWala-Mr.Ashish Halder
- 4.AVP Robotics-Mr.Amit Padhy
- 5.UPSC Fever-Mr.Pranav Nerurkar

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## **9. Business Mela**

Date: 10 th to 16th March 2019, Time: 9:00am – 5:00pm

Business Mela is an event where the students can sell their products and services.

The students are given stalls for an affordable rate of ₹500/-for whole week.



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## 10. Projects undertaken by Ember students

- a. M2M .
- b. AcciLERT–AccidentAlertSystem.
- c. Flood Detection and Monitoring System.
- d. Medicard.
- e. Electricity generation using sound.
- f. Greenhouse Control.
- g. Darquilliser.



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Ember Entrepreneurship cell of Atharva College of Engineering conducted the following events under the guidance of Prof. Mohan Kumar – Ember E-cell Faculty Head.

The events were attended by aspiring Entrepreneurship students so that they could develop an entrepreneurial mindset. The main motive behind these events was to inculcate a creative mindset in students, to develop self confidence and possibly to give wings to their out of box business ideas.

## Events conducted by Ember Entrepreneurship Cell in year 2020

- **Business mela**

An opportunity for young entrepreneurs to showcase and sell their products, while experiencing the gist of a market environment.

- **Elevator's pitch**

An event for students to pitch their ideas and unaccomplished startups in front of real market Investors within a limited amount of time. That is they had to convince in 120 seconds to the judges about their ideas.

- **Intern fair**

A platform where striking companies and Startups offer internships to students with a Guaranteed certificate, as well as a stipend for the brainy ones.

This event had free registration.



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- **Innovation mela**

A fixture where e-cell and i-cell come together and host a contest where students get an opportunity to present their posters as well as Working project models for a winning prize.

- **Start-up expo**

An expo to boost the up-and-coming, aspiring Startups by providing the students a podium to submit their abstracts for prize money.

This event had a registration fee of Rs.1000 per head

## **Projects undertaken by Ember students:**

- Infra VR
- SCARA Robot
- Kinetiles
- Splexa
- Photodev
- Beach cleaning bot
- Pistevo





## ATHARVA COLLEGE OF ENGINEERING

### EMBER COUNCIL 2020



 <b>RAHUL DESHPANDE</b> PRESIDENT		 <b>DHARIT FOTARIA</b> VICE PRESIDENT	
 <b>PARTHVI BHATT</b> TREASURER	 <b>PRANAV KULKARNI</b> MARKETING HEAD	 <b>AJAY SHAH</b> VENTURE HEAD	
 <b>HRIKITA PADWAL</b> HOSPITALITY HEAD	 <b>ABHAY DUBEY</b> TECHNICAL HEAD	 <b>ANIRUDDHA VAIDYA</b> TECHNICAL HEAD	 <b>SAMEER NAIK</b> PUBLIC RELATIONS HEAD
 <b>DEEP GOTECHA</b> REGISTRATION HEAD	 <b>VIVEK HARYANI</b> PUBLICITY HEAD	 <b>YASH VYAS</b> DIGI DECOR HEAD	 <b>SHUBHAM WAJE</b> DECOR HEAD
 <b>ASST. MARKETING HEAD</b> 1. KARAN RATHOD 2. YASH PRAJAPATI		 <b>ASST. EVENT COORDINATOR</b> ATHARVA PANSARE	
		 <b>ASST. REGISTRATION HEADS</b> 1. JANHAVI KATKAR 2. PARTH SATPUTE 3. SHRUTI YERAM	
 <b>ASST. TECHNICAL HEAD</b> 1. SHUBHAM AMODKAR 2. SWARANGI SATPUTE 3. BHAVYA GADA		 <b>ASST. DIGI-DECOR HEAD</b> 1. AKSHAT RATHOD 2. YASH SALVI	
		 <b>ASST. DOCS HEAD</b> KRUSHALI PATEL <b>ASST. DECOR HEAD</b> PAWAN GOND	

**Summery Report E – Cell Activities Odd Sem (21-22)**

<b>Sr. No.</b>	<b>Date</b>	<b>Topic</b>	<b>Speaker</b>	<b>Venue</b>
1	30th JUNE 2021	Webinar on the share market	Venkata Sriharsha	MS TEAMS
2	17th JULY 2021	Building Corporate Idea & Identity for startups.	DIPANKAR VERMA	ZOOM
3	21st JULY 2021	DATA ANALYTICS UNCHAINED	INAARA KHERAJ	GOOGLE MEET
4	21 August 2021	Workshop on the “IDEA GENERATION FOR STARTUPS	Prof. Mohan Kumar	GOOGLE MEET
5	4th Septem ber 2021	MARKETING AND BRANDING FOR STARTUPS	Ravinder Singh Chawla	GOOGLE MEET

**Summery Report E – Cell Activities Even Sem (21-22)**  
**ENTREPRENEURIAL EVENTS**

Sr. No.	Date	Event Name
1	<sup>th</sup> 4 – 6 <sup>th</sup> April, 2022	Business Mela
2	5th April, 2022	Robo Maze
3	4th April, 2022	Robo Soccer
4	6th April, 2022	Drone Arena

**TECHNICAL PROJECTS – Ember Ecell**

Technical Team of Ember E-Cell had created various creative and outstanding technical projects this year which are listed below:

Sr. No.	Project	Details
1	BlockSafe	Block safe is to track every genuine product in the market and give customers an assurance that the product they are buying is genuine.
2	GreenHouse	The project includes a camera that monitors the plants as well as the greenhouse, a temperature sensor that checks when temperature gets too high or too low, control relays that help turn the lights on and off based on the lighting requirements.
3	E-Bike	Phoenix HZ is a stylish,powerful electric bike which is designed using 50ah 48volts battery and provides a range of 90-100km.The top speed is 65kmph.
4	Agricultural drone	An agricultural drone is used in agriculture operations mostly in yield optimization and in monitoring crop growth and crop production
5	VR Rescue Bot	In some disastrous situations like fire,etc sometimes humans are not able to go and see the place for rescue. So in such cases the VR Rescue bot can be sent and the environment can be seen by us and as per the conditions the rescue team can help.





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## Projects Report

### 1) Smart car parking

#### Description:

The proposed smart parking system aims to address the inconvenience of EV charging by wirelessly charging cars while they are parked. This system eliminates the need for manual charging and ensures that the car is always trickle charged while parked at a smart parking space. While this solution may not be as fast as a wired connection, it would make wired charging redundant if installed at all major parking spaces. The system also includes proximity sensors and lighting to assist drivers in finding vacant spaces and parking easily. Overall, this technology has the potential to make EV ownership more convenient and appealing to consumers.

#### Made by:

1.	Janmejy Rashinkar	EXTC	FE	EXTC-2	89
2.	Tejas Sawant	EXTC	FE	EXTC-2	99
3.	Anand Subramani	CMPN	FE	CMPN-1	4
4.	Umakanth Chauhan	INFT	FE	INFT-1	12
5.	Tanmay Bangar	INFT	FE	INFT-1	6

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6.	Jay Patel	INFT	SE	INFT-1	79
7.	Pranav Trivedi	INFT	TE	INFT-2	61
8.	Aryan Chavan	INFT	TE	INFT-1	12

## Images of the project:



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## 2) Humanoid Robot

### Description:

This project highlights the features and benefits of a humanoid robot designed for motion capture programming. Unlike non-humanoid robots, this robot is user-friendly, intuitive, and easy to program due to its human-shaped form. Additionally, the robot's ability to navigate conventional spaces with ease makes it an ideal tool for a wide range of applications, from exploring human-robot interaction to assisting with tasks in everyday settings. This robot offers an excellent opportunity for both experienced and novice programmers to explore the potential of motion capture technology and advanced robotics.



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**Made by:**

1.	Sai Bhatkar	INFT	BE	INFT-2	
2.	Ayushi Rana	INFT	SE	INFT-2	35
3.	Jay Patel	INFT	SE	INFT-1	79
4.	Pranav Trivedi	INFT	TE	INFT-2	61
5.	Aryan Chavan	INFT	TE	INFT-1	12
6.	Vedant Farkade	INFT	SE	INFT-1	33

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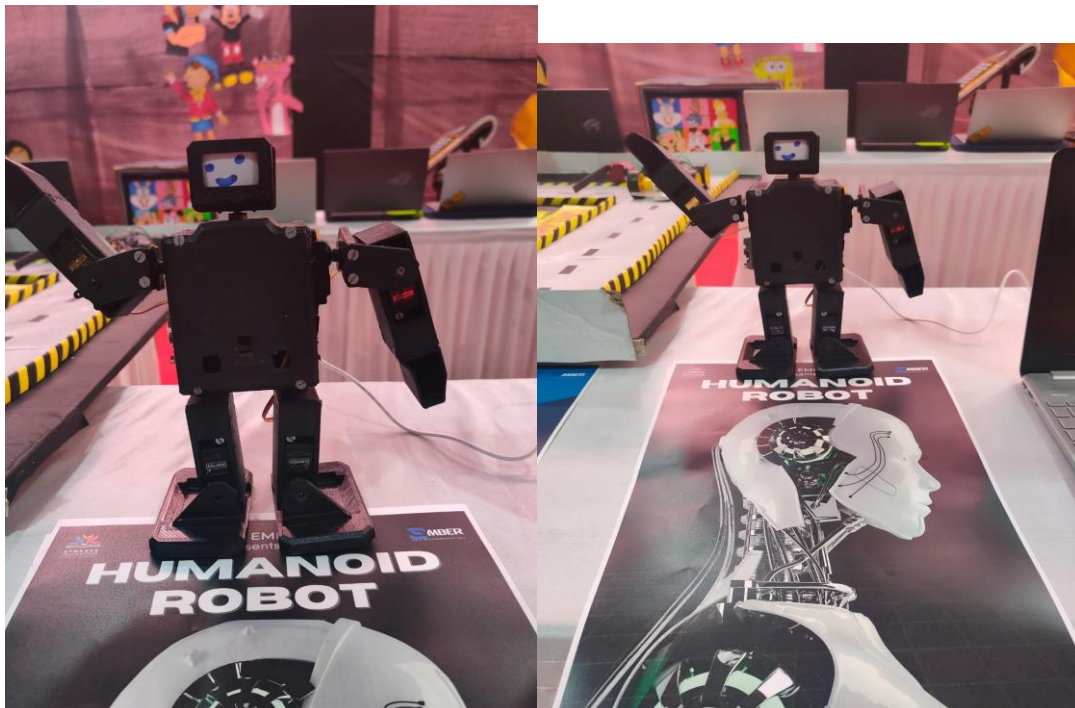


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**Images of the project:**



### 3) Shop n Go (Software application)

**Technologies used:**

Python, NodeJS, TensorflowJS, Tensorflow, ReactJS

**Made by:**

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1.	Akash Kolakkal	INFT	SE	IT - 1	63
2.	Shravani Pawar	INFT	SE	IT - 1	24
3.	Chinmayee Bidaye	INFT	SE	IT - 1	30
4.	Dheeraj Rapelli	ECS	SE	ECS	48
5.	Aayushi Tandale	ECS	SE	ECS	62
6.	Ayushi Rana	INFT	SE	INFT-2	35
7.	Aryan Chavan	INFT	TE	INFT-1	12
8.	Pranav Trivedi	INFT	TE	INFT-2	61

## Description:

The Shop N Go project is a self checkout system designed to simplify the checkout process at modern retail chains by eliminating the need for human intervention. Customers can simply scan the products they wish to purchase, make a cashless payment, and leave. Compared to other self checkout systems like Amazon Go, Shop N Go is easy to install and has a significantly lower capital expenditure. Overall, it can help businesses save time and money by reducing the need for human cashiers.

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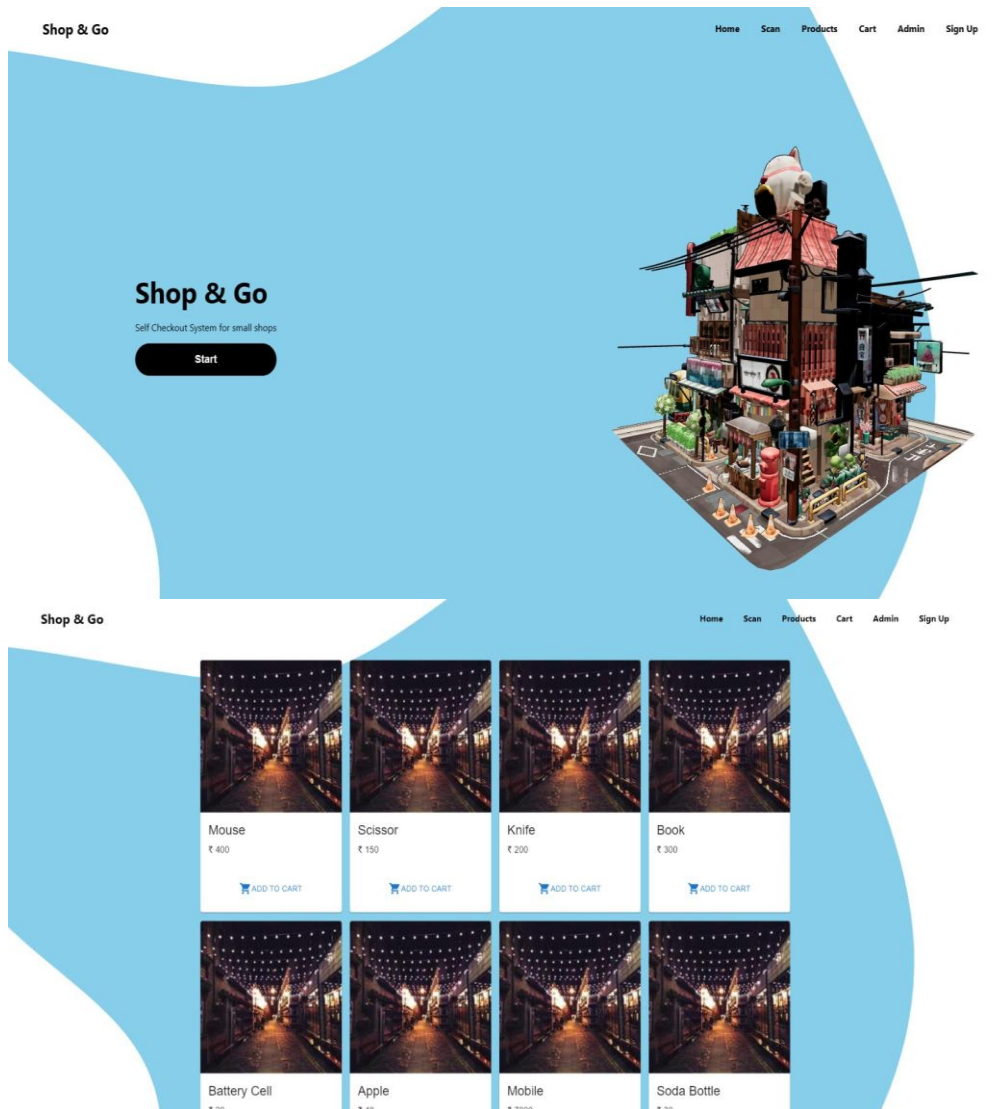


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## Images of the project:



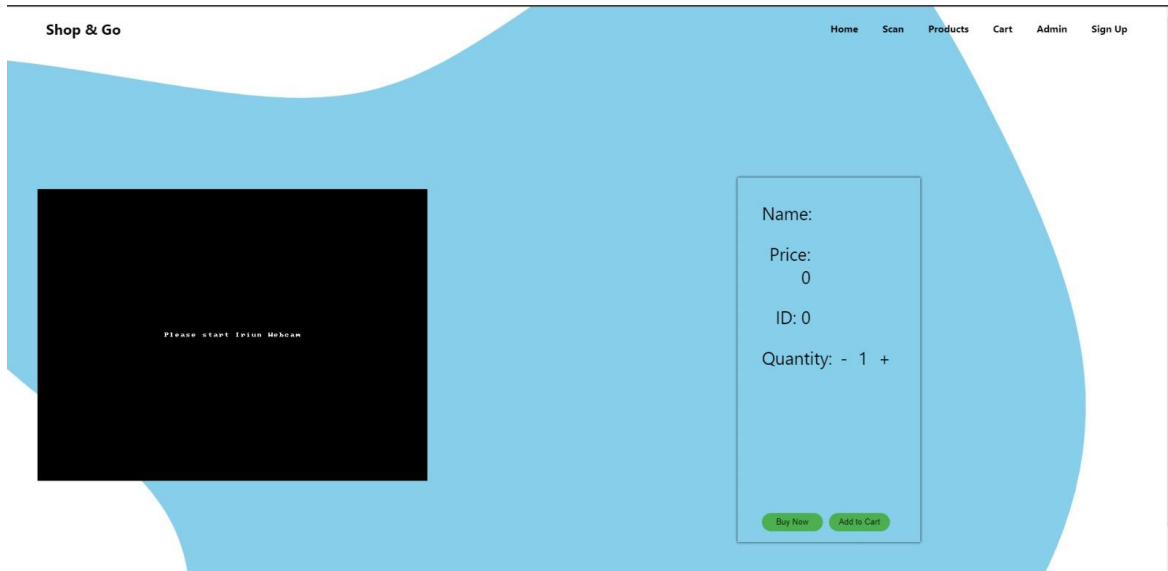
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## 4)SAAS ML APP(Software app)

Technologies used:

FastAPI, Scikit-Learn, Python, NodeJS, MongoDB, ReactJS

**Made by:**

1	Sahil Bhatt	INFT	TE	IT-1	9
2	Aryan Chavan	INFT	TE	INFT-1	12
3	Pranav Trivedi	INFT	TE	INFT-2	61
4	Jay Patel	INFT	SE	INFT-1	79
5	Ayushi Rana	INFT	SE	INFT-2	35

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## Description:

The SAAS is an online platform that provides cloud resources for users to train their machine learning models. It is designed to simplify the ML training process, allowing users to upload their dataset with little to no configuration required. Additionally, users can store and deploy their trained models remotely through the API provided. This platform can help users save a significant amount of time and money by eliminating the need for expensive hardware and large data science teams. Overall, it simplifies the ML training process and allows users to focus on other tasks.

## Images of the project:

The screenshot displays a web browser window with the URL `localhost:3000/createModel`. The application has a dark header with navigation links: Home, View Models, Create Model, Billing, Contact Us, and a Logout button. The main form is titled 'Model Type' with radio buttons for 'Regression' (selected) and 'Classification'. Below this is a 'Model Name' input field containing 'Salary Predictor'. The 'Upload Dataset' section features a 'Choose file' button and the filename 'gender.csv'. The 'Target Feature' input field contains 'Income (USD)'. A green 'Create' button is positioned at the bottom of the form. The browser's status bar at the bottom shows system information like CPU usage, memory, and the date 'Friday 14 April 2023 12:02:14 PM IST'.

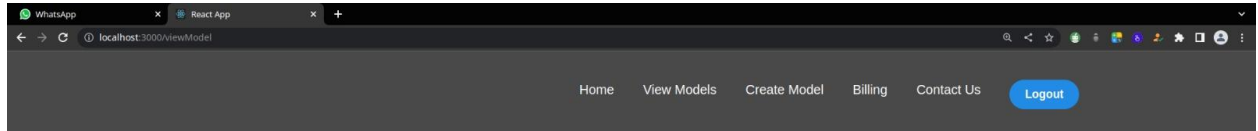
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## Models

salary predictor

Model Live

regression (lasso)

4/3/2023 15:26



Download

Predict Income

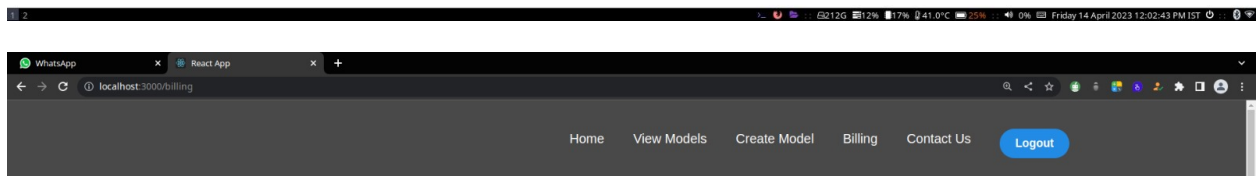
Model Live

regression (lasso)

3/3/2023 13:27



Download



Pay Unpaid ₹203.67

## Bills

prediction ₹11.79

sd (6428494ff70152ef063f2c82)

Unpaid

1/3/2023 20:40

Pay ₹11.79

training ₹191.88

title (642849cbf70152ef063f2c86)

Unpaid

1/3/2023 20:42

Pay ₹191.88

prediction ₹191.88

title (642849bef70152ef063f2c84)

Paid

1/3/2023 20:41

Pay ₹191.88

prediction ₹191.88

title (642849f6f70152ef063f2c88)

Pay ₹191.88

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## 5)Drone for disaster management

### Description:

This project outlines the features and benefits of a state-of-the-art disaster management drone designed to assist rescue teams and disaster relief organizations. The drone is equipped with advanced object detection and GPS technologies, which enable it to locate and identify people in disaster areas quickly. It also comes with a high-quality camera that captures detailed footage of the disaster area, which is analyzed in real-time using computer vision algorithms. The drone can be remotely controlled using a mobile app or remote control, providing live updates and intelligence to rescue teams in real-time. Its onboard computer ensures reliable and secure operation, and it's designed to withstand challenging conditions and environments. This disaster management drone is an indispensable tool for emergency responders in any disaster scenario, helping to save lives and minimize the impact of emergencies.

### Made by:

1.	Sai Bhatkar	INFT	BE	INFT-2	
2.	Ayushi Rana	INFT	SE	INFT-2	35
3.	Jay Patel	INFT	SE	INFT-1	79
4.	Pranav Trivedi	INFT	TE	INFT-2	61
5.	Aryan Chavan	INFT	TE	INFT-1	12

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## 6)ScanX(CyberSecurity Software Application)

### Technologies Used:

Python and ReactJS

### Made by:

1	Atharva Gandhi	INFT	SE	IT-1	36
2	Manav Shinde	ECS	SE	ECS	56
3	Shubham Dhumal	INFT	TE	IT-1	22
4	Aryan Chavan	INFT	TE	INFT-1	12
5	Pranav Trivedi	INFT	TE	INFT-2	61

### Description:

This project describes a utility tool designed to provide a detailed report on the security of websites. Users simply input the website name, and the tool checks various parameters, including host OS, IP address, SSL certificate validity, and more, to determine how safe the

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website is for visitors. This tool is highly intricate yet simple to use, making it an ideal choice for cybersecurity enthusiasts. It simplifies the process of website security checking, and future updates will increase accuracy and give users peace of mind while browsing the web. Overall, this tool is a useful asset for anyone looking to stay safe online.

## Images of the project:





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# Results

Domain Name:google.com

1	Ping Audit
Host status for: google.com IP Address: 172.217.27.206 Host is UP! Ping Avg Response Time: 405.45	
1	Subdomain Audit
1	SSL Audit
1	OS Audit

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## 7)Chainfund(Crowdfunding Software Application)

### Technologies Used:

Solidity, Reactjs

### Made by:

1.	Raghav bhutra	INFT	SE	IT-1	23
2.	Ajinkya Wankhede	INFT	SE	IT-1	5
3.	Nishit Prabhu	ECS	SE	ECS	45
4.	Shravani Pawar	INFT	SE	IT - 2	25
5.	Aryan Chavan	INFT	TE	INFT-1	12
6.	Pranav Trivedi	INFT	TE	INFT-2	61

### Description:

This report outlines Chainfund ,a decentralized application (DAPP) hosted on the Goerli Testnet of the Ethereum Blockchain network. It allows users to host crowdfunding campaigns and accept donations in various cryptocurrencies. It also offers fund-seekers the ability to offer coupons in exchange for donations, which can be used as proof of donation or even grant donors extra privileges. The platform is highly useful as it allows anonymous donations and removes any cost typically borne by platform owners. It's hosted on a permissionless blockchain, ensuring donations are immutable and irreversible. Overall,it is an innovative and useful alternative to traditional web2 crowdfunding services.

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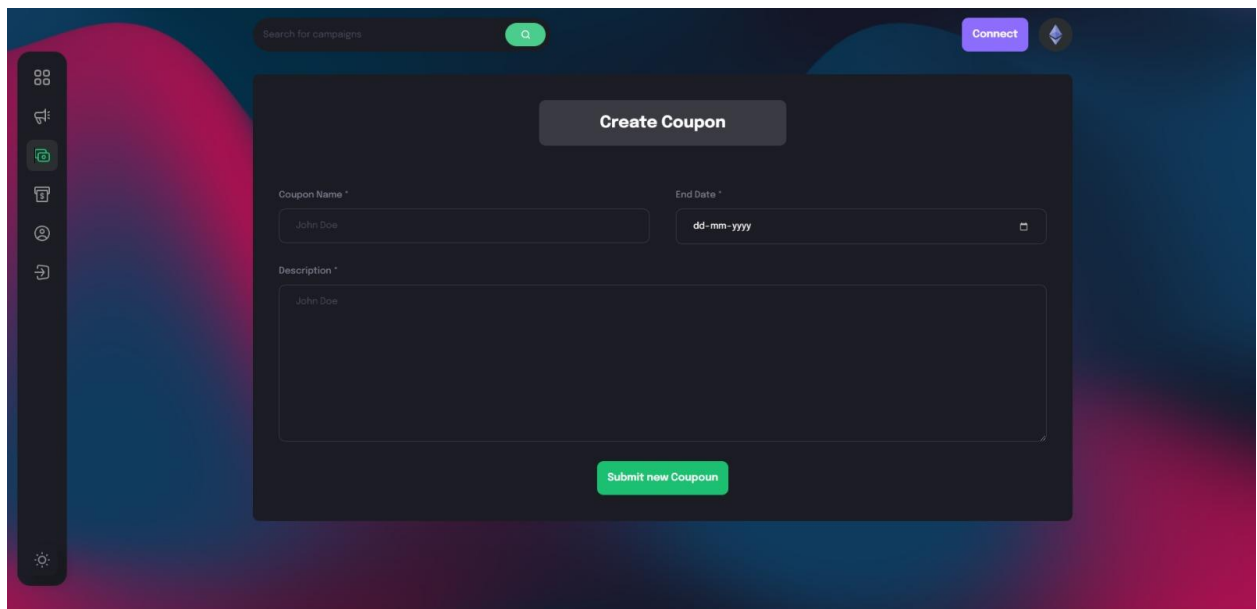
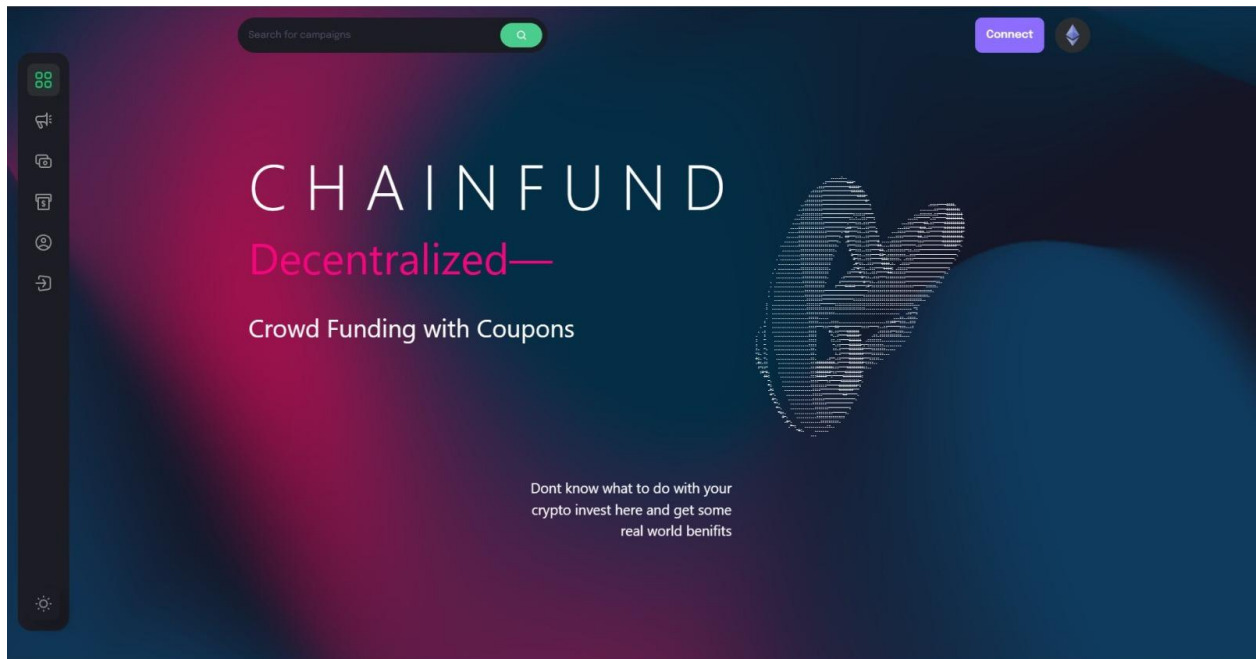


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## Images of the project:



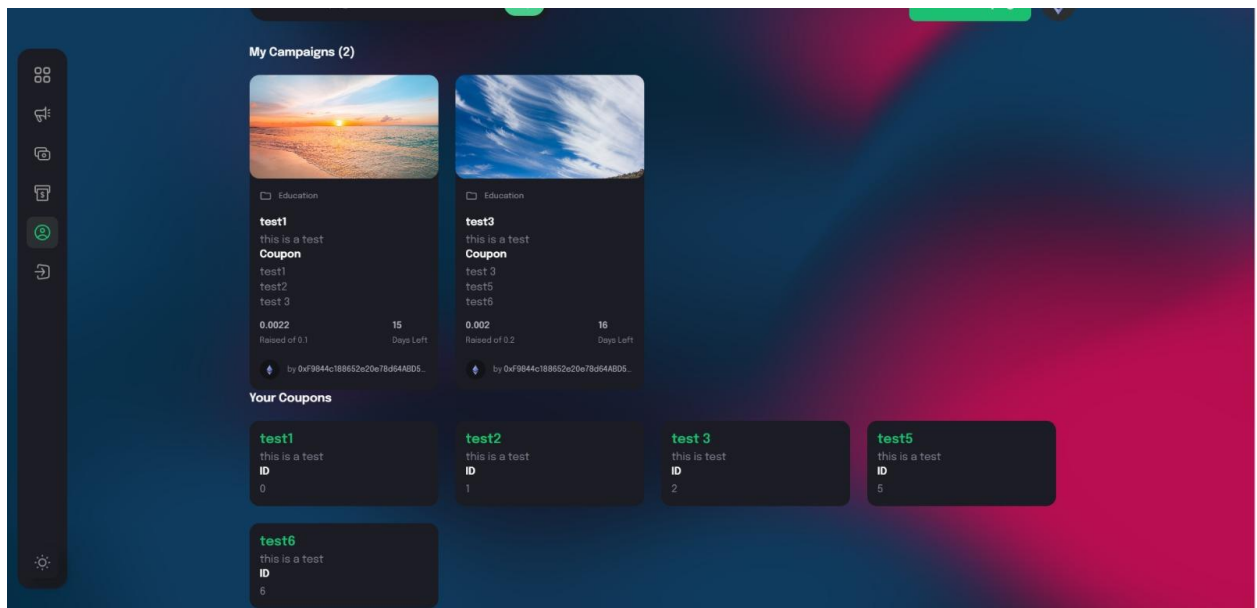
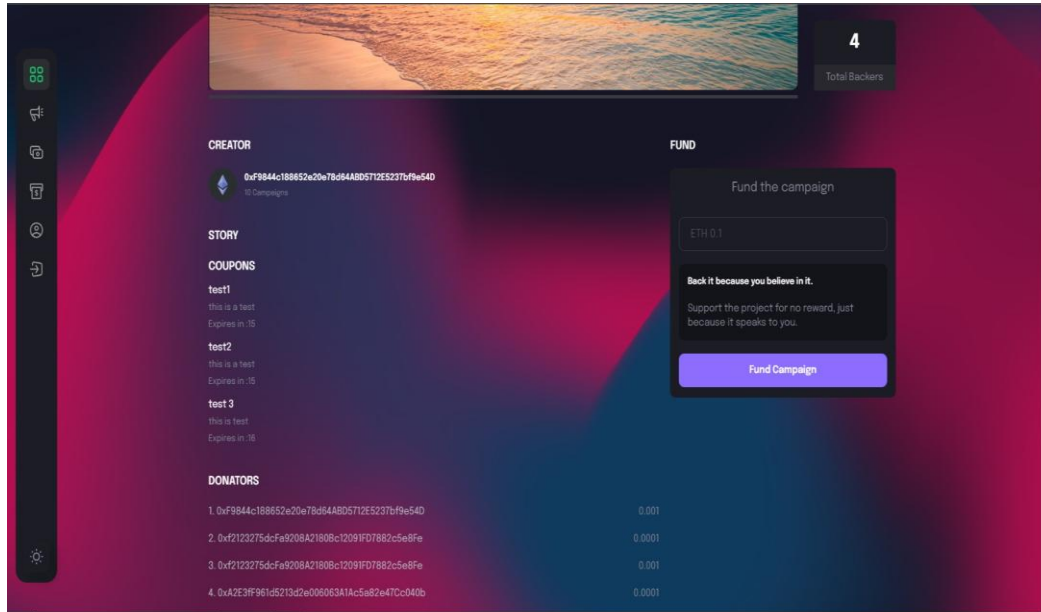
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## Events Report

### 1)Business Mela:

Ember E-Cell organized a successful Business Mela from 3rd-6th April, 2023, aimed at encouraging aspiring entrepreneurs and students to start their own businesses. The event provided participants with stalls to showcase their products and services, and learn the art of selling to customers. The Mela featured various stalls selling different products such as food, clothes, accessories, etc. Young entrepreneurs and college students displayed their goods in an attractive manner to draw the attention of customers. The event was well-attended, with a lot of people visiting the stalls every day.

The Mela was an excellent platform for participants to learn about the capital needs for starting a business, as well as various entrepreneurial skills such as communication, marketing, and more. Participants had the opportunity to understand how businesses work and what makes them successful. Overall, the Business Mela was a great success, providing a fantastic opportunity for aspiring entrepreneurs and students to learn and develop their skills.



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Some of the glimpses from the event:



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## **2)Robo Champions League:**

**Date:3rd April,2023.**

Robo Champions League was a technical event organized by Ember E-Cell, which took place in a football arena where students competed with each other using the robot's front to score goals. The event was held in a tournament format, with winners moving on to the next round. The player with the highest number of goals at the end of the match was declared the winner and rewarded with prizes worth Rs 1000. The students who participated in the event had a great time and enjoyed themselves immensely. This event was a great way for students to showcase their technical abilities while having fun. Overall, the Robo Champions League was an exciting and educational event that left a lasting impression on all who participated.

**Some of the glimpses from the event:**



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## 3)Robo Escape

**Date:6th April,2023.**

The Robot Escape technical event, organized by Ember E-Cell, was a huge success with several students participating in the game. The objective of the game was to control a car-controlled robot through a maze using a remote and reach the end as quickly as possible. The participant who completed the game in the least amount of time was declared as winner and received prizes worth Rs 1000. The students thoroughly enjoyed the event, and it provided an excellent opportunity for them to showcase their technical skills. The competition was challenging yet exciting, and the participants had to use their problem-solving abilities to navigate through the maze. Overall, this event was a great success and left the students with a memorable experience.

**Some of the glimpses from the event:**



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## 4)Drone Dome

**Date:5th April,2023.**

Drone Dome, a technical event organized by Ember E-Cell, was an exciting game where participants were given a drone and challenged to complete a racetrack while avoiding hurdles and hoops in the shortest possible time. The participant who completed the game in the least amount of time was declared as a winner and received prizes worth Rs 1000. Several students participated in the game, and it provided an excellent opportunity for them to showcase their drone piloting skills. The event was a lot of fun, and the participants enjoyed navigating the drone through the racetrack. It required quick thinking, coordination, and precision to complete the course, making it a challenging yet entertaining event. Overall, Drone Dome was a successful event that left the participants with a thrilling experience.

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Some of the glimpses from the event:



## 5)IQ Hunt

**Date:3rd April,2023.**

IQ Hunt is an event similar to a treasure hunt but with a focus on IQ and tech-related problems. The contestants were given challenges to solve, and once they succeeded, they received direct clues to help them progress further in the hunt. The group that completed the hunt in the shortest amount of time won the competition and rewards worth Rs.2000.

Overall, IQ Hunt was a fun and challenging event that tested the participants' intelligence and problem-solving skills. It provided a perfect platform for individuals to showcase their abilities and compete in a friendly atmosphere.

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## 6) Coding Hunt

**Date: 5th April, 2023.**

This event was organized to provide a platform for participants to showcase their problem-solving skills in the field of coding. The competition was divided into two rounds. In the first round, participants were required to arrange jumbled code or debug the incorrect code. The second round tested their problem-solving skills, where participants had to solve the given statement as quickly as possible.

The participant who accurately and quickly solved the problem statement was declared as the winner and rewarded with prizes worth Rs.2000.

The event was an excellent way for coding enthusiasts to showcase their abilities and learn from one another. Overall, the Coding Hunt was a fun and engaging event that tested participants' coding abilities and problem-solving skills.



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## 7) Call of Duty (Gaming Event)

**Date: 4th April, 2023.**

This gaming event was organized by Ember E-Cell, which saw enthusiastic participation from the students. The event was conducted in teams of five players each, who battled it out against each other in a competitive gaming environment.

The participants displayed great skill and strategy while playing the game, which was quite impressive. The winners of the event were rewarded with prizes worth Rs. 2000, which was a great incentive for the participants to give their best shot.

Overall, this gaming event was a great success, as it provided an excellent platform for students to showcase their gaming skills and interact with their peers. It also served as a refreshing break from the usual academic routine and provided a much-needed opportunity for students to unwind and have fun.

## 8) UI Mania

**Date: 6th April, 2023.**

This event was conducted with the aim of challenging participants to create the most attractive and interactive user interface within a specified time limit. The event was open to all, and the participants were given a topic to work on.

The reward for the best UI was prizes worth Rs 1000. The event was a huge success, and the participants showed their creativity and talent in designing impressive UIs.

This event not only encouraged the participants to showcase their skills but also helped them to learn and improve their design abilities.

Overall, the UI Mania event was a great opportunity for the participants to test their creativity, learn new skills, and win a reward for their efforts.

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## Startup On Electric Motorcycle

**Name of the student: Sameer Shaikh (Third Year, Electronics Engineering)**

### **Description:**

The innovative electric motorcycle (**NXGEN**) project designed by Sameer Shaikh, a third-year electronics student, features a front-wheel generator that produces electrical energy while the motorcycle is in motion, improving efficiency and extending its range. The generator is built into the front wheel and is always connected to the battery, allowing riders to recharge the battery while riding and reducing the need for frequent charging. The motorcycle also boasts a powerful motor, lightweight frame, and ergonomic design for comfortable long-distance rides, along with advanced safety features like powerful brakes and LED lights. This cutting-edge solution for sustainable transportation is perfect for eco-conscious commuters and adventurers looking to reduce their environmental impact while enjoying the freedom of riding.

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**Images of the project:**



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