

Brief Report about Digital Ideathon-2022

Digital-Ideathon-2022 was organised by L.D. College of Engineering, Ahmedabad with support of eInfochips, Ahmedabad. Main objective of Digital Ideathon-2022 event is to bring out innovative ideas from the ignited young minds to solve real life issues in the broad area of Defence, Climate change, Smart Transportation,

First meeting related to Digital Ideathon was arranged at eInfochips in the month of August-2022 and it was decided to organise six-month long Ideathon so that students get sufficient time for brain storming.

Digital Ideathon was launched in the august presence of Shree H.S. Patel, M.P. Lokashabha Ahmedabad (East) on 23rd September 2022 during SSIP 2.0 Sensitization programme at Vishwakarma Hall, L.D College of Engineering, Ahmedabad. Mr. Anand Shah and Mr. Bhavik Vora from eInfochips, Ahmedabad were guest of honour for the event.

Ideas were invited from the students after inauguration function and sufficient time was given for the submission. Mentoring session was organised at Bhaskaracharya Hall of E.C. Engineering Department on 23rd November 2022. Mr. Anand Shah mentored students about the digital Ideathon

We received total 28 ideas from different engineering colleges out of which total 19 ideas were selected for presentation. Looking at convenience of experts and students' final presentation of ideas was arranged during 15th to 17th February 2023. Best three ideas was selected by team of judges from eInfochips and prize was given to following four teams on 15th March 2023 during "Award and Certificate Distribution Ceremony". Certificate of participation was given to team members and mentors of all 19 selected teams.

Out of total 4 winning teams, 3 teams are from LDCE and 1 team from VGEC Chandkheda. Congratulate all following three teams and their mentors for winning in Digital Ideathon.

[1] Agro - Digital Identity

Students: CHATROLA MITBHAI JAYSUKHBHAI, UMAR BADI, ROHAN KABARIYA, DILIP AHIR, RAJ KUSHWAHA, PATEL GAUTAM

Mentor: Prof. Karan Bhatt

Prize won: Rs. 20,000=00

Idea:

The main objective is to create an individual digital profile of every farmer of the state and to create a common database for advancing agriculture. After the registration of the farmers on the basis of the core relevant documents like: • Personal information. • Communication details. • Farm location and details. • Field Information. (Size of field, soil condition, land title, crop history, type of irrigation source etc.) • Yield information (intercropping, yields, weather data, post-harvest –storage and sales, harvesting techniques used etc.) • Financial instruments (Account ownership, payments and cash transfers availed) • Credit (whether credit accessed, loan size, use of loan.) • Insurance (risk covered and period, cost, details of insurance company, fields- livestock covered etc.) • Qualification (trainings attended, certifications received) • Business Information – agribusiness linkages, cooperative memberships, sales prices, markets farmers are linked to etc. And on the bases of all these data a digital profile of every farmer can be generated and a unique ID can be given to every farmer after linking their Aadhar card and bank details. Only government departments and the farmers individually will have the access to view their details. The data so collected will be stored in secured database of the government in the form of blockchain technology or big data. The farmers can make their digital profiles by visiting the common service centres or the Jan Seva Kendra.

[2] Diaoptics (Ophthalmoscope)

Students: Krunal Prajapati, Desai Dhruv Rameshbhai, Ajagiya Deval Mukeshbhai , Dhamsania khushi, Dewanshi Soni, Bhavya Mathur

Mentor: Prof. Bhavin Mehta (Biomedical Engineering Department)

Prize won: Rs. 15,000=00

Idea:

The Digital Ophthalmoscope uses Raspberry pi, 20D lens, Camera module, LED, Mirrors are most useful components. It is an open-source retinal image capturing device with dynamic diabetic retinopathy grading system. The idea is to have an easy and time efficient diagnosis of diabetes and other diseases that can easily be done at a regular clinic. The Device offers a compact design so that bulky machines that take up space at small clinics can be avoided. This Device is also very cost effective and uses readily available components. Helps in early diagnosis of Diabetes, hypertension, brain

tumour, glaucoma so that the patient can get a cure as soon as possible. The Raspberry Pi is being used to save the eyesight of people in India thanks to the Digital Ophthalmoscope project.

[3] Team GoAgrics (Farmer's Support)

Students: Chauhan Ridham VijayKumar, Makwana Chirag Rameshbhai, Pithadiya vinit hitendrabhai, Bhatt Krishnaben Pareshkumar, Hiren Aswar Virambhai, Panchal Darshan Kanubhai

Mentor: Dr. Hiteishi Diwanji (IT Department)

Prize won: Rs. 10,000=00

Idea:

Fully Automatic Hydroponic Farming Technology” is a type of horticulture and a subset of hydroculture that involves growing plants without soil by using water-based mineral nutrient solutions. It involves the calculated flow of nutrients and water in a mixing tank. The solution is pumped into a pipe where plants are grown with suitable supporting cups. We have developed weather control technology which can control all the weather parameters using microcontrollers like Arduino and Raspberry Pi.

[4] THE Mech-E-ies (Help soldiers)

Students: Gohel Shivang N and Kirti Mangliya

Mentor: Dr. C.H. Vithalani

Prize won: Rs. 5,000=00

Idea:

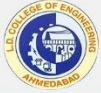
GHAAT - The Deadliest Soldier An automated Gun for Uneasy, Tense and Difficult areas like Himalayan Valleys , Jungles of Kashmir, Some areas of Sea. It basically Assembly of GUN , THERMAL SENSOR , DRONE , JETPACK , CONTROL CIRCUIT , CAMERA and OTHER Necessary Electronic Items.

The event has two stages:

- a. Stage I: **Idea Proposal** – Participants should identify a problem related to the theme and propose a smart solution using Digital and Electronics technology.
 - i. Participants must submit a detailed report of their idea in the format specified in given link in this form.
 - ii. The problem and the respective solution must adhere to the demands of the theme.
- b. Stage II: **Idea implementation** - The selected ideas from the first stage would be required to now implement their solution through hardware/software/hybrid (hardware & software) medium.

Photographs:





L . D . College of Engineering - Ahmedabad
Launches
Digital Ideathon - 2022 Sponsored by e-Infochips

Chief Guest
Shri H. S. Patel
MP Lokshabha
Ahmedabad (East)

Shri Anand Shah
Guest Of Honour
e-Infochips

Shri Bhavik Vora
Guest Of Honour
e-Infochips

Date : 23rd September 2022
Time :- 4 PM to 5 : 30 PM
Venue : Vishwakarma Hall, LDCE

Dr. R.K. Gajjar
Chief Patron
Principal LDCE

Dr.Ketan Badgular
Patron
Incharge Principal LDCE

Dr. Manish Thakker
Convener
Head. IC Dept

Dr. C.H. Vithalani
Convener
Head. EC Dept



*"Creative Thinking Inspires Ideas,
Ideas inspire Change"*

Mentoring Session for DIGITAL IDEATHON-2022

*"What is now proved was once
only imagined"*



Speaker
Shri Anand Shah
einfochips

Date & Time
23rd November 2022, 3:00 p.m.

Venue:
Seminar Hall, E.C. Department, L.D.C.E. Ahmedabad

Jointly Organized By
L.D. College of Engineering, Ahmedabad
and
eInfochips (An Arrow Company), Ahmedabad.

Coordinator
Prof. N.A. Kotak
Assistant Professor, E.C. Department



Patron
Dr. R.K. Gajjar
Principal
L.D. College of Engineering
&
IIC President

Meeting now



DIGITAL OPHTHALMOSCOPE



L.D. COLLEGE OF ENGINEERING
DEPARTMENT OF BIOMEDICAL ENGINEERING

TEAM NAME : DIOPTICS

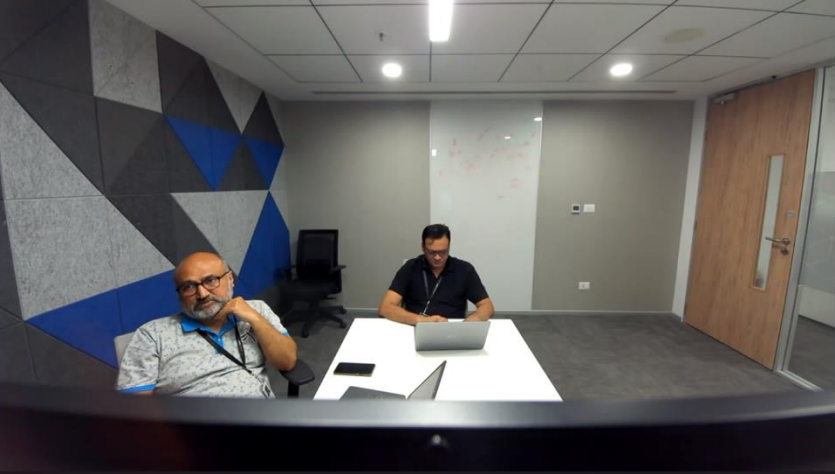
Name: Prajapati Krunal (Team Leader) prajapatikrunal526@gmail.com	Name: Dhamsania Khushi dhamsaniakhushi25@gmail.com
Name: Devanshi Soni dvnshi.soni@gmail.com	Name: Deval Ajagiya devalajagiya@gmail.com
Name: Bhavya Mathur bhavyamathur4@gmail.com	Name: Dhruv desai dhruvdesai018@gmail.com

103002_Deval Ajagiya

95°F Sunny

Meeting

Meeting



IN-AIIM-EIC-RATNA-MIR-Iolima-RM372 (External)

98°F Sunny

Meeting

Chat People Raise React View Apps More Camera Mic Share Leave

NK N A Kotak

2B 200170107109 UMAR BADI

RK Raj Kushwaha (Guest)

CM Chatrola Mitthai (Guest)

MV MIHIR R. VASAVADA

16:03 16-02-2023

SSIP



Certificate and Award Distribution Ceremony

DIGITAL IDEATHON

Jointly Organized By

L. D. College of Engineering, Ahmedabad

and

eInfochips (An Arrow Company), Ahmedabad

“Creative Thinking Inspires Ideas, Ideas inspire Change “

Date : 15th March 2023

Venue : Block - E, Ratna office, Ognaj, e-Infochips

Time: 11:00 a.m. onwards