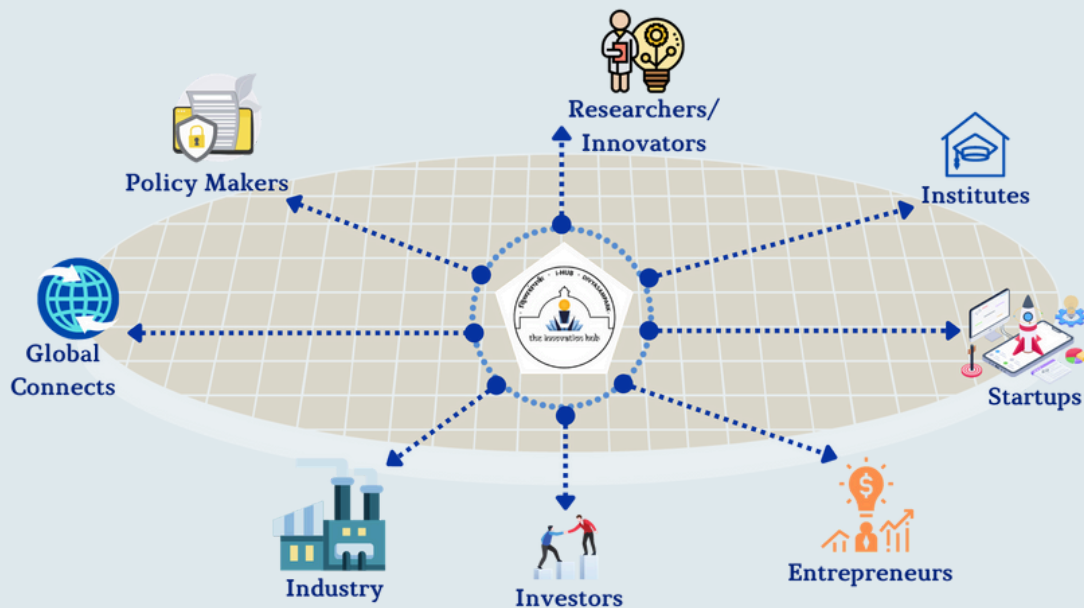**iHUB DivyaSampark**

iHUB DivyaSampark, Technology Innovation Hub @ IIT Roorkee

Building an Innovation Tribe...

A joint initiative of

Department of Science and Technology, Government of India

and

IIT Roorkee

ACKNOWLEDGMENT

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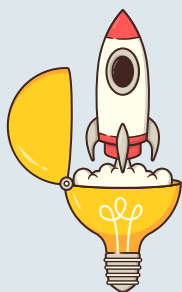iHUB DivyaSampark @ IIT Roorkee

Mr. Arjun Mehta
Assistant Manager (Operations)
iHUB DivyaSampark @ IIT Roorkee

Building an Innovation Tribe

CONTENT

S.NO	NAME OF STARTUPs
1	PaiByTwo Pvt.Ltd
2	Ballice smart devices Pvt.Ltd
3	TEQBOT innovations Pvt.Ltd
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5	Adeo Distinctions& dimensions Pvt.Ltd
6	Fitrofy Technologies Pvt.Ltd
7	Dtown Robotics Pvt.Ltd
8	CogXR Labs Pvt.Ltd
9	Evigway Technologies Pvt.Ltd
10	Theranautilus Pvt.Ltd
11	Vignam Labs Pvt.Ltd
12	Nexactly AI Solutions Pvt.Ltd
13	Continuum Research & Development Pvt.Ltd
14	Calibr (Brainhive solutions Pvt.Ltd)
15	Spirinova Technologies Pvt.Ltd
16	Jyoma Solutions Pvt.Ltd
17	Evolved Transportation System Pvt.Ltd
18	Pherious Inventions
19	Dheya Engineering Technologies Pvt.Ltd
20	Nextup Robotics
21	Smartalpha Pvt.Ltd
22	TechXR Innovations Pvt. Ltd.
23	Unscene Innovations Pvt. Ltd.
24	IDR R&D Development Pvt. Ltd.
25	Mythyaverse
26	Lenviz Technologies
27	Sustainico Technologies Private Limited
28	Cognosia Institute Private Limited
29	EnrgEnv Smart Chemicals and Materials Pvt. Ltd.
30	Stingray Robotix

Contact Details

S.NO	NAME OF STARTUPs	CONTACT	MOBILE NUMBER
1	PaiByTwo Pvt. Ltd.	contact@paibytwo.com	9654256896
2	Ballice smart devices Pvt.Ltd	info@ballice.com	7451815486, 9837553399
3	TEQBOT innovations Pvt. Ltd.	vijay@theteqbot.com	9837554414
4	Linearized Amplifier Technologies Pvt.Ltd	karunrawat@gmail.com	8585992445
5	Adeo Distinctions& dimensions Pvt. Ltd.	info@1stZoom.com	9387041311
6	Fitrofy Technologies Pvt Ltd	puneet.manchanda@smartdietplanner.com	9711944943
7	Dtown Robotics Pvt. Ltd.	official@dtownrobotics.com	9690829531
8	CogXR Labs Pvt.Ltd	v_pandey@cs.iitr.ac.in	8369716839
9	Evigway Technologies Pvt.Ltd	evigway@gmail.com	8860460842
10	Theranautilus Pvt.Ltd	debayan@iisc.ac.in	8910740066
11	Vignam Labs Pvt.Ltd	sharma.vibhu101@gmail.com	9650488030
12	Nexactly AI Solutions Pvt.Ltd	shyamp0099@gmail.com	9601971754
13	Continuum Research & Development Pvt. Ltd.	santosh.kumar@continuumrsearch.com	9972634088
14	Calibr(Brainhive solutions Pvt.Ltd)	umesh@calibr.ai	9886756968
15	Spirinova Technologies Pvt.Ltd	amit@spirinova.dev	8287656534
16	Jyoma Solutions Pvt.Ltd	prashant.jyoma@gmail.com	8882186690
17	Evolved Transportation System Pvt.Ltd	evolvedsystem@gmail.com	9999408749
18	Pherious Inventions Pvt. Ltd.	pheriousinventions@gmail.com	9646846855
19	Dheya Engineering Technologies Pvt. Ltd.	gurushankara.kc@dheyatech.com	9632128866
20	Nextup Robotics Pvt. Ltd.	nextuprobotics@gmail.com	8076369462
21	Smartalpha Pvt.Ltd	ramesh@smartalpha.co.in	9652791115
22	TechXR Innovations Pvt. Ltd.	prashant@techxr.co	8889500018
23	Unscene Innovations Pvt. Ltd.	cephasjoe@proton.me	6361366542
24	IDR R&D Development Pvt. Ltd.	info@idrrnd.com	7827479788
25	Mythyaverse Pvt. Ltd.	anmol@mythyaverse.com	8369716839
26	Lenviz Technologies Pvt. Ltd.	prabhat@lenviz.com	8826030870
27	Sustainico Technologies Private Limited	agarg@ar.iitr.ac.in	9891260100
28	Cognosia Institute Private Limited	sridharv@cognosia.com	9885303289
29	EnrgEnv Smart Chemicals and Materials Pvt. Ltd.	enrgenv@gmail.com	7579204440
30	Stingray Robotix Pvt. Ltd.	madhup@stingrayrobotix.com	7830008191

PaiByTwo was founded by the Research scholars at IIT Roorkee. The founders have strong research and technical backgrounds with several publications and copyrights under their names. PAIBYTWO stands for 'Pitching Artificial Intelligence Before You Together With Opportunity' as its vision is to provide opportunities to enhance AI learning opportunities and services through our research and development.
Founders: Gaurav Bhardwaj

Problem Statement: The major problem in the case of agricultural terrain is its uneven nature and loose soil with different properties in different regions. Hence, it becomes more difficult for a biped robot to perform a stable locomotion. We are developing a biped robot capable of performing stable motion on uneven agricultural terrain, collecting & analysing the data precisely through the appropriate sensors, and performing intelligent actions based on advanced Artificial Intelligence (AI) techniques.

Most of the Agrobots being used in the agriculture industries in today's era are expensive big-sized machines or wheeled robots. While talking about legged robots, only hexapods and quadrupeds have been used. We aim to develop cost-effective biped Agrobots with toe-foot (two separate links from toe to sole & sole to ankle similar to human beings) capable of working in adverse farming conditions. The biped Agrobots have low contact with the land area instead of the wheel Agrobots, enabling them to cause minimal damage to the farming land and capable of working in uneven terrain. The intelligent robotic solutions being developed by us harness the human-like affective analysis capacities such as automatic navigation, visual analysis, automatic data processing, decision support, and action suggestion based on the analysis.
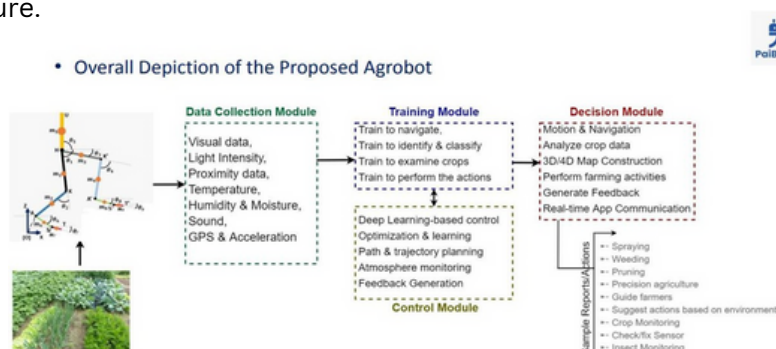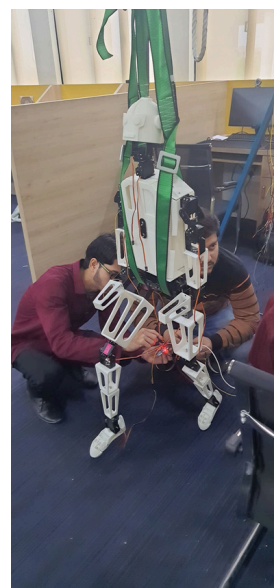
Future plans: Proposed product can provide more cost-effective and efficient solutions to bring automation in the field of agriculture as a biped robot has a low contact area leading to minimal impact on soil can easily navigate in bigger crops compared to other big sized machines or wheeled robots. It can do most tasks like human beings, making it more interactive and a better companion for farmers and industries associated with agriculture.

Milestones and achievements:
Granted and Published 2 Design Patents and Filed 2 Patents
Under MVP

Future plans:
Our proposed product can provide more cost-effective and efficient solutions to bring automation in the field of agriculture as a biped robot has a low contact area leading to minimal impact on soil can easily navigate in bigger crops compared to other big sized machines or wheeled robots. It can do most tasks like human beings, making it more interactive and a better companion for farmers and industries associated with agriculture.

- Overall Depiction of the Proposed Agrobot

Website Link: https://www.paibytwo.com/

Location:
GNEC-IITRoorkee, Plot No. 20, Knowledge Park II, Greater Noida, Uttar Pradesh 201310

BALLICE SMART DEVICES PVT LTD

Ballice is incorporated and incubated at iHUB DivyaSampark @ IIT Roorkee. Ballice's mission is to solve the world's most catastrophic problems, such as air pollution, climate change, and a lack of resources, by developing a solution to air pollution and a DC solar stove to increase the reliability of fossil fuels using the cyber-physical system developed by Ballice..

Founders:
Ajay Kansal & Tripti kansal

Problem Statement:
Air toxicity which kills around 7 million people a year is a major cause of heart attack, asthma and lung disease causing loss of life and valuable time. At ballice they want to educate people of this problem and create a infrastructure which is a blend of hardware and software, working together in the form of network of air purifiers decreasing the AQI level to the safest range.

The Ballice team not only created a solution for those who are paying high cooking costs, but also an option for remote/resource-constrained areas where cooking is not possible. With an on-grid system, there are no health hazards and the system is environmentally friendly, which is a green alternative to fossil fuels. It also saves electricity bills for 25-30 years.

Achievements:
- Best start-up award at IIR Roorkee, Participated in India's biggest renewable expo.
- 200 plus paying customer enquiry for solar stove.
- Developed India's first 1200W solar cooker and a fire test Instrument sensor for PV Modules.
- Received Work order from MNRE to develop Fire test instrument sensor for PV module (First time make in India).
- Uttarakhand plastic summit award 2023
- The best entrepreneur of the year 2023
- The best start-up expo 2022
- ZED GOLD CERTIFICATE

Future plans:
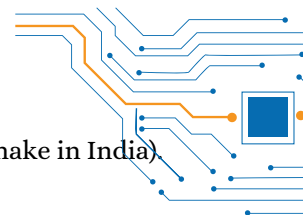
PV Module Fire Test Facility

Video: IoT enabled Smart solar cooker

https://www.youtube.com/watch?v=FKa_zxldUe4

Location:
iHUB DivyaSampark Innovation &
Incubation Centre, Wind simulation Lab, IIT
Roorkee, Roorkee, Uttarakhand-247667

Website Link: www.ballice.in
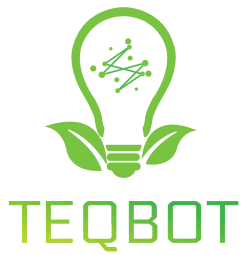
Teqbot Innovation Pvt Ltd

SMART SWITCH CONTROLLER

By installing TEQBOT Smart Switch controller we can control all the existing appliances by Mobile App from anywhere in the World without changing anything like switches, Lights, Fans etc, also compatible with voice command by Alexa and time scheduling.

Founder: Vijay Varma

Problem Statement:

The inability to switch off appliances not in use remotely leads to increased energy consumption, and elderly persons and people with disabilities are unable to get up to make the switch.

Future plans:

We are in discussions with multiple IITs, universities, government offices, hospitals, and hotels regarding the implementation of smart controllers for energy-efficient buildings

Achievement:

- **Trade Mark Registration-** TEQBOT is now a registered trade Mark.
- **Pilot Project with IITR**- Certified to Achieved energy saving of 40 %
- Best Startup Award 2023 at Uttarakhand Udyog Mahotsav.
- Listed on India Mart for B2B Sales
- Devices installed at iHub DivyaSampark and few residential homes

Video :

https://www.youtube.com/watch?v=rbTMp-vUvdA
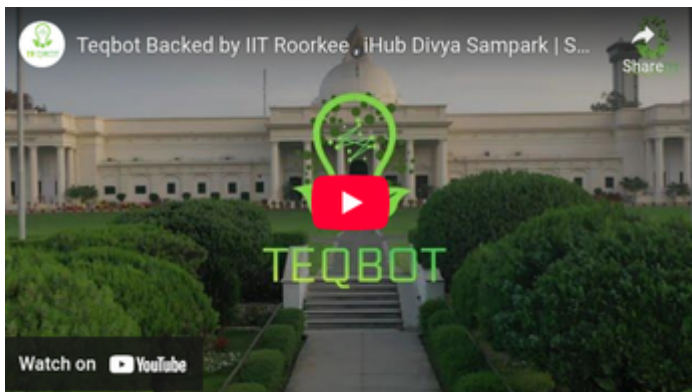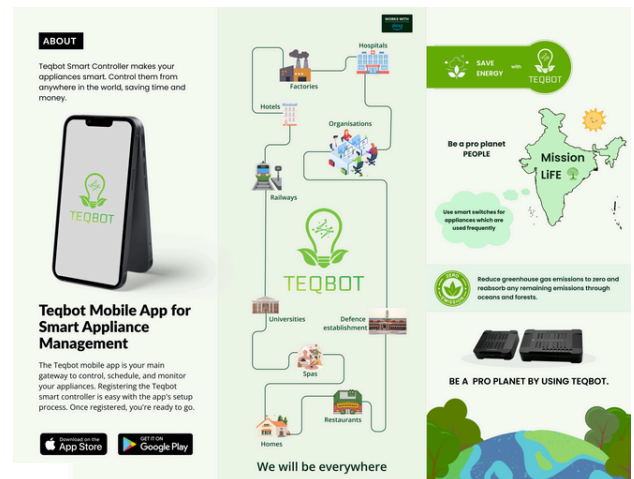
4 Switch Controller

8 Switch Controller

Device Models

Single Switch 30 Amp for AC , Geyser , Water Pump

Location:

iHUB DivyaSampark Innovation & Incubation Centre, Wind simulation Lab, IIT Roorkee, Roorkee, Uttarakhand-247667

Website Link: https://www.theteqbot.com/

LINEARIZED AMPLIFIER TECHNOLOGIES PVT LTD

The company is geared up to take on new technology development projects in the relevant areas. The company is primarily focusing on various aspects of cyber-physical system design including radio-frequency sensors development and addressing the cyber domain with Artificial intelligence and Machine Learning. The company is geared up to take on new technology development projects in the relevant areas. The company is primarily focusing on various aspects of cyber-physical system design including radio-frequency sensors development and addressing the cyber domain with Artificial intelligence and Machine Learning.

Company Board of Directors:

Karun Rawat (Founder), Meenakshi Rawat (Founder), Gowrish B. and Vivek Sharma

Problem Statement:

The Start-up is solving the system enhances road safety by reducing the risk of accidents at blind spots and U-turns. It promotes smoother traffic flow and increased awareness, benefiting both drivers and pedestrians. Product is WAIT System (WAIT is termed as WARNING AHEAD at INTERSECTIONS and TURNS.)
The Wait System is a two-model system designed to alert vehicles of oncoming traffic in blind spots and at U-turns. The system consists of two models, one for each end of the blind spot or U-turn. Each model uses a Radar sensor to detect vehicles and communicate with the other model to alert oncoming traffic.

Achievements and Milestone:

- Pilot installation at IITR and Srinagar J&K Army Cantt
- Discussions with different commercializing agencies are in progress.
- Product ShotScope clinched victory in the Dare to Dream 4.0 contest hosted by DRDO
- Grant Received on Millimeter Wave Power Amplifiers Chips IP Core Development and Demonstration for 5G FR2 Bands.
- WAIT System (Warning Ahead of Intersection & Turns)

Video:

https://www.youtube.com/watch?v=c0S65ZRH9OY

Pilot Deployment at I.I.T Roorkee

Pilot Deployment at 15 czw Srinagar Army Cantonment
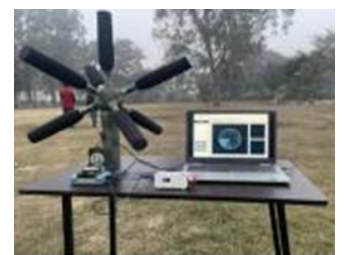
Linear AmpTech Team with their innovation: ShotScope

https://www.youtube.com/watch?v=J6BKi3_e3Rw

Location:
iHUB DivyaSampark Innovation & Incubation Centre, Wind simulation Lab, IIT Roorkee, Roorkee, Uttarakhand-247667

Website Link: https://linear-amptech.com

Adeo Distinctions & Dimensions Pvt Ltd

AdeoDist provides AI powered Smart City Observability solutions and services empowering administrators with round the clock situational awareness. We have successfully helped multiple cities and police departments with our solutions.

Founders: Mr. Suyash Sinha

Problem statement:

City administrators and law enforcement need broad situational awareness, but can't be everywhere at once. AdeoDist's AI-powered Smart City solutions provide this via existing cameras and sensors. Key advantages include AI-driven early issue detection, low setup costs, and customizable scalability from buildings to districts.

Have primarily 3 line of products

Poise

Is an enterprise-grade facial recognition system.

- POISE is state of the art Facial Recognition System specially designed to handle 5G mobile networks - with stationary and mobile footprints.
- POISE is capable of recognizing faces from a database of millions within 3 seconds with 92% accuracy.
- POISE can be used for a wide range of use cases involving safe, secure and smart spaces, smart buildings, smart cities and host of other applications.
- POISE API can be consumed by other line of business software. Enterprise integrations can be also done by our team of engineers if needed.

CamBoss

Is a CCTV availability monitoring system. It is an enterprise-grade AI-powered CCTV health monitoring system that can monitor thousands of commercial CCTV cameras from any manufacturer across hundreds of locations. Perfect for smart buildings, enterprise and smart cities, it automatically detects any equipment defects and gives alerts, ensuring security is always active.
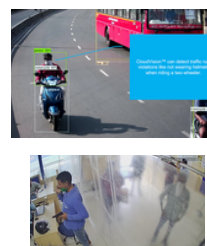
Actual security drill image

Optimus

Is a real-time AI for smart cities It redefines smart city technology and is a complete smart city solution powered by advanced AI. It consists of a suite of products and services that work together to simplify and scale smart city implementations. Optimus can scale from a small smart town with a few hundred cameras to a bustling metropolitan smart city with hundreds of thousands of cameras. With advanced encryption and enterprise-grade security features, Optimus empowers smart city administrators to have complete situational awareness across the entire city from the control room.

Milestones and achievements:

- Declared winner in IDEX DISC 6 challenge.
- City wide solution deployed in the city of Madurai to check against covid PPE violations. No other vendor was able to glean the information needed for this with existing traffic cameras.
- Pilot with Muzzaffarpur Bihar police and 5 bank branch locations.
- Pilot with a leading manufacturing facility for medical equipment
- Pilot with a sand mine operator

Future plans:

AdeoDist is expanding its offerings to include bundled turnkey solutions encompassing hardware, software, and AI. They are also broadening sensor support and actively pursuing partnerships with government and smart city agencies. Finally, they have received interest from strategic investors.

Video :

https://www.youtube.com/watch?v=9LciGSpRyTE

https://www.youtube.com/watch?v=bED_dHQTqBI

Website Link: https://1stZoom.com

Locations: Electronic City, Bangalore

Fitrofy Technologies Pvt Ltd

We provide healthcare business digital tech to uplift the platforms to manage lifestyle disorders. Currently focusing on Diet & Nutrition.

Founder & CEO - Mr. Puneet Manchanda
Cofounder & COO - Mr. Sarthak Manchanda

Problem Statement:
More than 240 million people are suffering from lifestyle disorders like Diabetes, PCOS, etc and there are no adequate number of dietitians in India.

Milestones and achievements:
They are able to achieve more than 3.5 Lac+ downloads, 2.5 Lac+ registered users, 30,000 + monthly active users, 2500+ paid users in B2C and in B2B2C they are able to do more than 15+ partnerships with organizations. Also, they are able to launch this app in multiple countries and across multiple domains. Built a profitable and sustainable model which is unique and first of its kind in India on which 12 live integrations are there which includes 6 large organizations- Traya, Kapiva, Plix, Aviva and Paytm.12 live integrations are there which includes 6 large organizations- Traya, Kapiva, Plix, Aviva and Paytm. 70K/month new customers are being activated on our system via these partners. Generating 6.5 lacs revenue per month. Expected to grow to 9 Lac MRR soon.
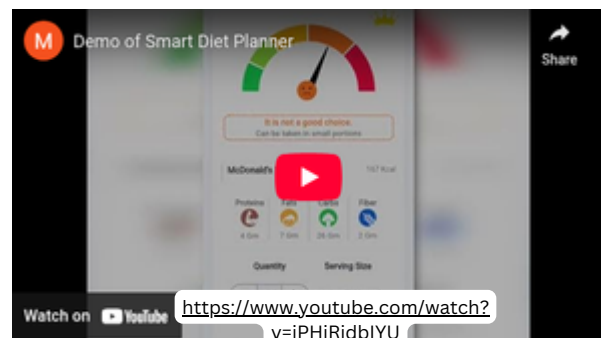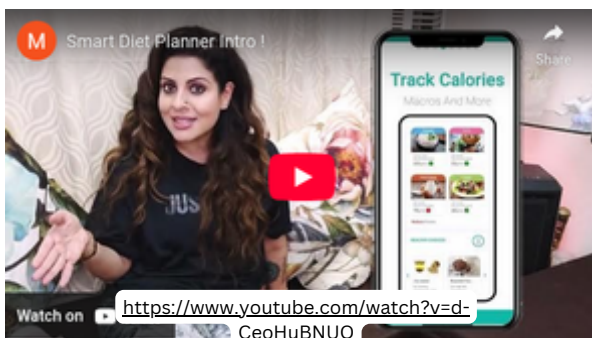
Future plans:
Expansion in different regions, expansion in multiple domains besides diet & nutrition, add AI tech in the solution to make it more robust and useful.

Testimonials:
Their app is available on PayTM and Kapiva' website and they are really happy with the result for the same. It helps them increase their retention in their platforms through us.

Video:

https://www.youtube.com/watch?v=d-CeoHuBNUQ

https://www.youtube.com/watch?v=jPHjRidbIYU

In News:
http://bwdisrupt.businessworld.in/article/Smartdiet-Planner-App-Targets-10-Lakh-Users-/16-07-2021-396857/

https://www.analyticsinsight.net/exclusive-interview-with-puneet-manchanda-founder-smart-diet-planner/

https://digitalterminal.in/news/delhi-based-healthtech-startup-smart-diet-planner-leveraging-ai-to-assist-millions/27719.html

https://thinkwellness360.com/smart-diet-app-the-new-buzz-word/

Website Link: www.smartdietplanner.com   Link to app: www.smartdietplanner.com/app

Dtown Robotics Pvt Ltd

DTown Robotics is a robotics company working in the design and development of Unmanned Aerial and Ground Vehicles as a full stack solutions in the application areas of defense and agriculture.

Founders:
Manas Upadhyay, Avinash Chandra Pal, Pawan Dubey, Sanjay Khatri

Problem Statement:
DTR is working on providing solutions to one of the critical problems of the society that is to minimise human interventions in the dull, and dangerous tasks that have been done by our armed forces and our farmers in their daily repetitive tasks.

Milestones and achievements:
- Dtown Robotics is a NASSCOM DTC startup and has been in the list of top 30 promising startups in India 2022 by Your Story.
- The first startup in Uttarakhand to secure a government project management consultancy for the next 3 years.
- Revolutionizing defense technology with its advanced unmanned ground and aerial drones
- generated ₹6.4 crore in revenue
- First startup in Uttarakhand to secure a government project consultancy for three years.
- Partnered with the Ministry of Tribal Affairs, setting up 30 robotic labs to enhance their initiatives.
- Ranked Top 5 in 'Mission Start-अब', a reality show initiated by PSA and featured on Amazon Prime.
- First Indian manufacturer of indigenous 5L agricultural spraying drones with Drone Type Certification and a patented design.

Future plans:
In the next 2 year term, the team is planning to expand their expertise focused into the defense and agricultural sector by implementing bespoke solutions focused on Machine Vision , AI and Robotics. The team is set to raise its Pre-series A round in the upcoming months.

Testimonials:
"I highly recommend Dtown Robotics for their exceptional work in providing unmanned solutions for agriculture and defense operations. Their expertise in robotics and dedication to innovation have made them a trusted partner in improving efficiency and productivity in these crucial industries." Mr. Ajay Singh , MD , Ranchi Techno solutions Private Limited.

Video :

Launched its Nano-category commercial UAV system

https://www.youtube.com/watch?v=0CJaHMljkwo&t=211s

DTR TUFF DRON S6
Small Category drone designed as All weather multipayload platforms for agriculture , defense and logistics Operations.
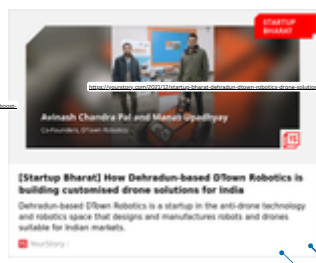
RH1NO UGV
Indigenous ground robot used for ISR operations in minimising human intervention in dull and dangerous tasks.

DTR TUFF 450
Entry Level Micro Category Drone Designed for training applications with an HD Camera and best in class flight time

In News:

https://indianexpress.com/article/north-east-india/tripura/tripura-police-train-staff-in-drone-technology-to-boost-digital-surveillance-8190480/

https://yourstory.com/2021/12/startup-bharat-dehradun-dtown-robotics-drone-solutions

https://roboticsindia.live/how-dehradun-based-dtown-robotics-is-building-customized-drone-solutions-for-india https://yourstory.com/2021/12/startup-bharat-dehradun-dtown-robotics-drone-solutions

https://yourstory.com/2022/11/yourstory-unveils-tech30-companies-2022

and many more......

Website Link: www.dtownrobotics.com

Location:
G-294, Sector 63, Noida Uttar Pradesh

CogXR Labs Pvt Ltd

CogXR Labs is focused on solving the existing problems in the healthcare industry and taking India to the next level and bringing in the era of Healthcare 4.0.

Founders: Vishal Pandey, Anmol Gupta, Partha Pratim Roy

Problem Statement:

They are creating a mobile-based screening tool based on computer vision. Their goal is to automate and digitize the process, reducing waiting times and streamlining patient care. Their research-backed products aim to aid doctors in evaluating cognitive well-being and detecting anomalies in medical images.

Future plans:

To detect multiple diseases with multiple modalities and release the app.
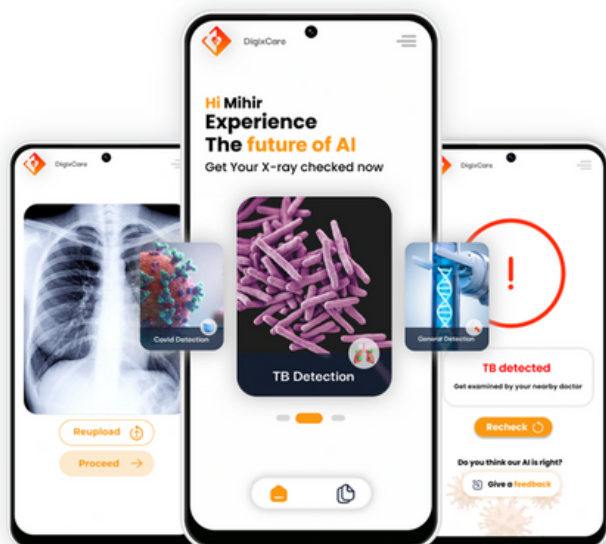
DigiXCare, a mobile app to screen Covid, TB, Pneumonia, and much more, based on an X-ray image.

- A free app for experiencing the future of healthcare.
- Over 90% accurate
- On-device ML
- Intelligent
- Interpretable (XAI)

Location:
GNEC-IITRoorkee, Plot No. 20, Knowledge Park II,
Greater Noida, Uttar Pradesh 201310

Website Link: www.cogxrlabs.com

EVIGWAY TECHNOLOGIES Pvt Ltd

Evigway Technologies Pvt Ltd is an Indian company working in the Defence sector under the Military Intelligence & Advance IT solutions domain. Dedicated to working on certain highly classified projects for the specialized agencies and the security forces of the country. They provide strategic defensive & offensive capabilities to Governments, Law enforcement agencies, and Critical infrastructure operators.

Founders: Mr. Akshay Singh & Ms. Shashi Singh

Problem Statement:

India ranks 8th worst affected country by the menace of terrorism out of the 163 surveyed (By Global Terrorism Index Report 2020). It is almost impossible & highly expensive to gather manual intelligence in 15000 km of land & 7500 km of coastline borders. The use of advanced intelligence software & techniques is a must in this modern era of warfare. Those too should be customizable to local needs.

There is a severe need for in-house R&D-focused companies to work on intelligence technologies, software, equipment for the safety of the nation, critical infra & more on both the defensive as well as the offensive side of operations.

Milestones and achievements:

- Selected by NVIDIA for Tech Facility support
- Selected by SNU, IIM Khozhikode, iHub Gujarat for tech facility & mentorship support
- Equity investment by Dept of Science & Technology, GoI
- Partnership with CSIR Lab, Mohali for joint product development for the defense forces.
- Top 35 startup in Emerging Technologies by Ministry of Electronics & IT under Digi Week'22
- Recognized among the top 5 startups by ESC (Electronics and Computer Software Export Promotion Council of India), STPI - Software Technology Parks of India
- Represented at Defense Expo'22 at the stall offered by Ministry of Defense (MoD), Govt of India.
- Selected as top 75 Deep Tech Startup in Digi Week 2022 by MeitY, Govt of India
- MoU signed with INSPACe, Dept of Space, and the Govt of India for the programs with ISRO.
- also represented our company at HIMTECH2024, VINBAX2024 (Indo-Vietnam Joint Exercise), Indo-US joint exercise, UPEIDA2024.

Future plans:

Future plan is to expand into international markets by utilising our expertise Defence and Aerospace Actively. We are actively pursuing Global Collaborations and forming strategic partnerships with international to reach new markets.

Video:

https://www.youtube.com/watch?v=uf_TWnM8ZH8
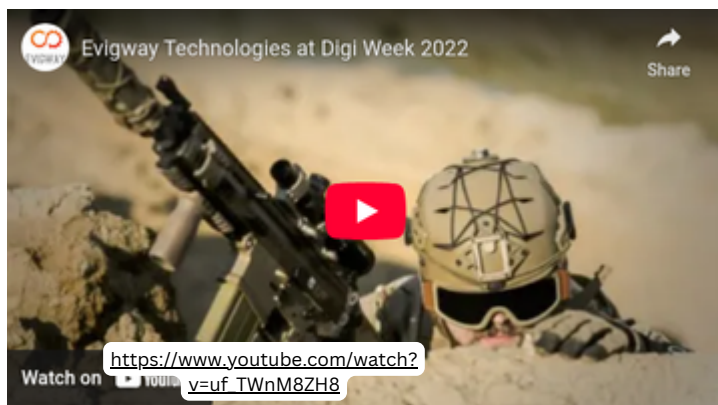
Received a special token of appreciation from Lt. General Rajeev Puri, commander of the esteemed Strike (Brahmastra) Corps.

Website Link: www.evigway.com

At Indo US military exercise at Auli

Locations: Dehradun (HQ), Mohali (Lab), Gurugram (Reg.)

Theranautilus Pvt Ltd

CALBOTS (specialized magnetic nanobots for dental applications).

Theranautilus is a DeepTech healthcare company in the process of translating nanorobots into clinics. They specialize in equipment for fabricating nanorobots therapeutically capable of performing specific functions ranging from drug delivery, sterilising biofilms, cancer theranostics so on and so forth. Along with fabrication we are also developing devices safe deployment of nanorobots in living systems, and mechanisms to manoeuvre them to their target inside the body remotely.
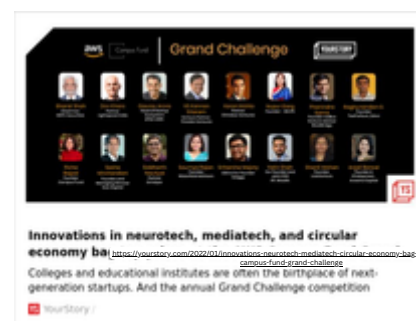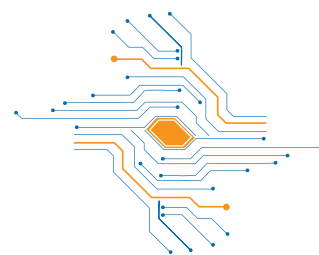
Founders: Prof. Ambarish Ghosh, Dr. Debayan Dasgupta, Dr. Shanmukh Srinivas

Problem Statement:

This Deep Tech startup is dedicated to solving complex medical problems through the use of cutting-edge nanotechnology. By harnessing the power of these tiny machines, the team is working to address a range of medical issues, including dental hypersensitivity, root canal reinfection, and cancer theranostics.

Achievements:

- Department of Science and Technology NIDHI PRAYAS Innovator award, 2022
- TiE Con Matrix award for best start-up in future tech category, 2022
- BIRAC BIG-21 for Medical Devices
- Recognized as one of the top 50 DeepTech startups in India 2024 by nasscom EMERGE 50!
- Collaboration with key dental hospitals and institutes nationwide.
- Recognition for innovation in nanotechnology-based oral healthcare.
- Preclinical trials successfully completed in laboratory settings.
- Partnerships established with dental hospitals for pilot studies.
- Phase 1 human trials application is under preparation.

Innovations in neurotech, mediatech, and circular economy ba... https://yourstory.com/2022/01/innovations-neurotech-mediatech-circular-economy-bag-top-prizes-aws-campus-fund-grand-challenge
Colleges and educational institutes are often the birthplace of next-generation startups. And the annual Grand Challenge competition

In News:

https://www.iadr.org/awards/iadr-hatton-competition-and-awards
https://iisc.ac.in/events/prof-ambarish-ghosh-and-team-has-won-the-national-award-under-technology-start-up-category/
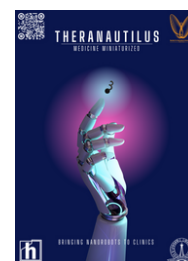https://www.boardofinnovation.com/blog/top-10-medtech-innovations/
https://www.thehindu.com/sci-tech/science/using-nanorobots-in-dental-procedures/article35911710.ece
https://www.ndtv.com/india-news/nanobots-can-now-treat-your-teeth-during-root-canals-study-2980870

Future plans:

The long-drawn vision of Theranautilus is to revolutionize cancer theranostics space by bringing the science fiction of "Fantastic Voyage" to reality. They plan to develop nanorobots that can be injected into the human body and travel to cancerous cells. These nanorobots will be equipped with the latest cutting-edge technology to diagnose and treat cancer at its source. Their goal is to create a minimally invasive and highly effective solution that will change the lives of millions of people suffering from cancer. Their team of experts in nanotechnology, robotics, and medicine are working tirelessly to make this vision a reality.

Video:

https://www.youtube.com/watch?v=u3Mhi1Qpkjw

https://www.youtube.com/watch?v=BCM89Jcucrw&t=1285s

Recognized top 50 DeepTech startups

Locations: IISc, Bangalore
Website Link: www.theranautilus.com

Nexactly AI Solutions Pvt Ltd

Nexactly AI Solutions offers a SaaS-based neuromarketing software that helps businesses optimize their marketing strategies by analyzing the subconscious responses of their target audience by using advanced neuroscience techniques such as eye tracking, facial coding, and EEG (Electroencephalography) to capture and interpret the reactions of consumers to various stimuli which can be used to improve the effectiveness of marketing campaigns, product designs, and user experiences.

BehaveNeu EEG Headband

Single-channel EEG device designed for cognitive enhancement through neurofeedback and gamification. Key Features Lightweight and user-friendly design, Measures brainwaves such as alpha, beta, gamma, delta, and theta, Cognitive metrics include Attention, Stress, Meditation, and Blink detection, Connects to mobile apps via Bluetooth (HM-10 BLE module), Enables thought-controlled neurofeedback games and exercises.

Founders: Shyam Parmar, Neel Patel

Problem Statement:

With rising attention deficits and cognitive challenges due to digital distractions, BehaveNeu provides an EEG headband with neurofeedback-based brain training. Additionally, its BehaveNeu Reflex system—a combination of an EEG headband and a pneumatic glove—helps paralyzed patients regain motor control through neuroplasticity-driven rehabilitation, making it a unique innovation in the neurotech space.

Milestones and achievements:

Patent applied for modular EEG device. (1 Brain computer interface device can be used for multiple Brain related applications), Featured in Times Of India Ahmedabad for conducting Brain Computer Interface Live session on Student's brain, Got Funded and Incubated by iHUB Divyasampark IIT Roorkee. Received the Best EdTech Startup award at Shilp Startup Fest 2.0 from Actor Sonu Sood. Top 25% Finalist at QS Reimagine Education Awards, London, celebrating our contribution to the future of education and employability, advancing global learning solutions. Best Innovative Product at SciknowFest for Behaveneu Headband demonstration, highlighting its potential in revolutionizing brain health technology, with widespread interest from the scientific community. Bronze Medalist at QS Reimagine Education Awards, London, for advancing global learning solutions and employability. Finalist at MJF India Pavilion, CES 2025, Las Vegas, where we showcased our startup at the world's largest consumer tech trade show.

Future plans:

BehaveNeu aims to expand its reach through strategic partnerships in education, healthcare, and rehabilitation. The company is seeking investment and collaborations to enhance its technology, scale distribution, and introduce new BCI-driven products, including EEG-integrated wearables for neurorehabilitation and cognitive training.

Best EdTech Startup Award at Shilp Startup Fest 2.0

Website:
https://www.nexactlysolutions.com/

Location : Ahmedabad

Vignam
Labs Pvt Ltd

Vignam is an AI-powered platform that enables educators to create 3D interactive simulations effortlessly. By leveraging AI, Vignam eliminates the need for complex 3D modeling, making simulations accessible and cost-effective for private tuition centers and educators.

Founders: Vibhanshu Sharma

Problem Statement:
Creating 3D simulations is expensive, time-consuming, and requires technical expertise. Vignam's AI-driven simulation builder allows educators to generate interactive simulations instantly, reducing costs and making complex concepts easier to visualize and understand.

Milestones and achievements:
They have partnered with 7 institutes in Delhi NCR area, backed by iHUB DivyaSampark and are part of their PANKH program. They have currently 1500 plus users and have over 50 + simulations deployed on their platform and have educational content of over 1000 + topics. Selected for TIE Pune Nurture 13.0 Accelerator Program. Selected for Google AI Academy 2024. Successfully built over 1,000 3D simulations for math and science subjects. Successfully onboarded 70+ paid private tuition institutes. Built a library of 1000+ pre-built simulations covering Math and Science.

Future plans:
Vignam aims to expand into defense and manufacturing simulations while enhancing its AI-driven simulation generation capabilities. Future collaborations include strategic partnerships with ed-tech firms and potential investments to scale AI-powered simulation creation across multiple industries.

Testimonials:
- "As a school owner, I'm constantly on the lookout for new tools and resources that can help our teachers and students succeed. Vignam has been a game-changer in this regard, empowering our educators to help students to reach their full potential." - Vishwas Rana (Owner, CHAUDHARY CHHOTU RAM MEMORIAL PUBLIC School)
- Vignam completely transformed how teaching and learning is done in our school. Teachers in our school are happy as students are now able to learn and understand concepts in very less time." - Surender Gaur (Principal, Savitri Siksha Sadan Sr. Sec School)

Video:

https://www.youtube.com/watch?v=gGY1bEue3dU

Locations:
Delhi NCR

Website Link: www.vignamlabs.com

Continuum Research, India's leading SaaS platform for mobility decarbonization, generates and facilitates EV carbon credit trading. Supported and funded by iHUB at IIT Roorkee, they are a Startup India recognized and DPIIT-accredited company (Reg. No. DIPP112178).

Name of the Products/technologies developed: 1 Digital Monitoring, reporting & validation SaaS platform for measurement of carbon emission reduction.
2. Carbon Trading exchange

Problem Statement:
Current carbon credit platforms lack advanced features, global scalability, and standardized protocols. NFT platforms for renewable energy carbon credit monetization are also lacking. Despite onboarding ChargeMod and Zeon EV, giving Continuum Research a presence in 5 states with 450 charging stations, slow EV adoption hinders air quality improvement and reduces the potential for lower oil imports.
Problems faced: High upfront cost of operations, Low capacity utilization due less EV penetration, low incentive for faster adoption, Data Collection and Accuracy, Regulatory Compliance, Resource Constraints, Integration and Usability, Stakeholder Transparency, Availability of Carbon Credits for Emission Offset from Trusted Source, Double Accounting of Carbon Credits

Product/Application use cases:
EV Charging Infrastructure, EV fleet, Energy & Transportation.
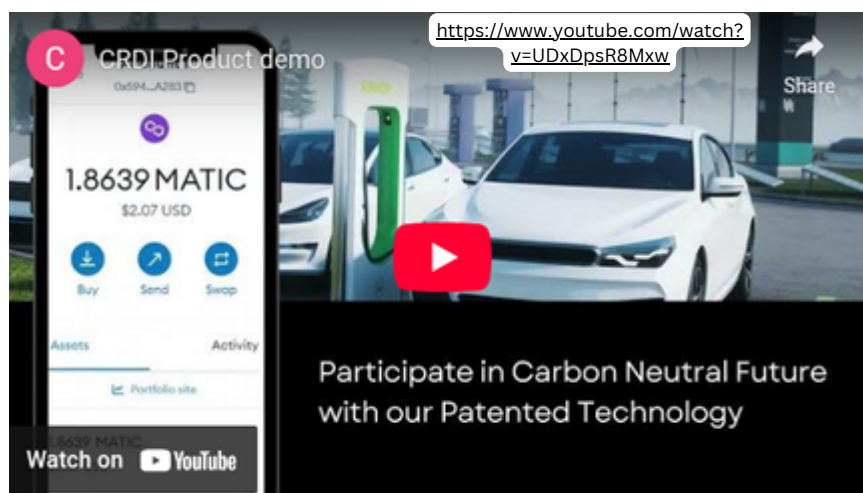
Founders: Santosh Kumar, Ravi Yadav

Milestones and achievements:
They have completed development of charging infra application as well as NFT Carbon Credit platform. Also started on-boarding of vendors. BESCOM (Bengaluru Electricity Supply Company) is interested in their solution. B2B Program as a Service: Listed with Verra. . 622 charging stations are onboarded on the B2B platform. Zeon has been onboarded as a new customer.

Future plans:
Commercial discussion and negations are going on with the following: Tata Power EV charging – Proposal submitted, Tata Power Home Charging – Proposal submitted, Volttic – negotiation stage, Statiq: Initial phase of discussion, Global Expansion: Nepal by Aug 2025

Video:

https://www.youtube.com/watch?v=UDxDpsR8Mxw

Location: Bengaluru

Website Link: https://www.continuumrsearch.com/

Brainhive Labs Pvt. Ltd

Calibr is a collaborative learning platform for organizations (B2B SaaS) to continuously measure the skills of their employees, identify the skill gaps and upskill them by recommending personalized learning paths. Organizations can create relevant micro-learning nuggets in-house via AI powered course authoring tool or curate it from the content hub.

Calibr LXP

An e-Learning platform for organizations to find skill gaps and upskill their workforce is in Commercialization stage. Product deployed on production and customers are using it. Calibr LXP is Deployment at Microsoft Cloud.

Founders: Umesh Chandra Joshi, Anand Prakash

Problem Statement:

Organizations lack a way to continuously measure skills of their employees and identify skill gaps because of which learning efforts are not aligned to business goals.

Milestones and achievements:

1. Launched a beta product.
2. Part of Microsoft for Start-ups Founder Hub
3. 5+ pilot customers.
4. Content partner for National Digital Library

Future plans:

Partnered with Wiley, Pearson, Cengage & McGraw Hill. Currently in the progress of partnering with Oxford University Press, Udemy, Packt and Skill Soft to curate high quality learning content.

Video:

https://www.youtube.com/watch?v=wlwFAdRZDt4

Website Link: https://calibr.ai
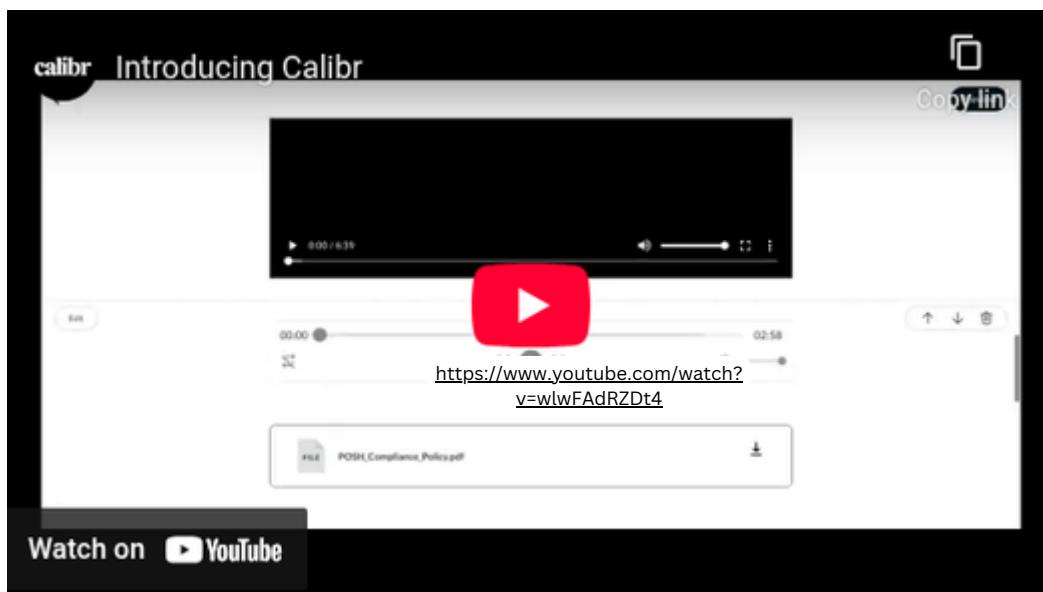
Location: Bangalore

Spirinova Technologies Pvt Ltd

Spirinova was started in May 2022, with a mission to solve pressing problems in the industry by using advanced tech.

Founders: Amit Kumar, Umesh Tripathi, Subhash Gupta Stealth Cofounder, an AI expert

Problem Statement:

They are positioning Spirinova as a choice MVP builder, that is working towards bringing down the cost of MVP development, pushing up the qualitative benchmarks, by using generative AI. Their deep expertise in MVP development and generative AI enables to transform the MVP development experience for customers.

Milestones and achievements:

- Reached 1 crore revenue in first 9 months of operations

Future plans:

- Build a generative AI platform to bring down the cost of MVP development to 5% of its current price.
- Build a Land registration system on the blockchain
- Build a Warehouse receipt repository system on the blockchain
- Build an Agriculture supply chain system on the blockchain
- Build a Taxation system on the blockchain
- Build a quantum computation platform on Ocean protocol
- Build fitness and habit-forming app built around game theory
- Build a charity NFT platform
- Build a future prediction app by opinion discovery
- Build an Autism discovery app
- Build an AI-based clinical trial system for Ayurvedic medicines
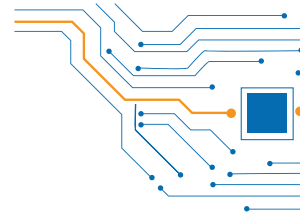
Testimonials:

- "It was an honor working with Spirinova team on the hyperlocal delivery app. The innovative design and impeccable user experience they created in a short period of time, I guess I couldn't have gotten elsewhere easily. I recommend Spirinova for their capabilities to innovate." - Anuj Pratap Singh,Director @Pratap Buildtech
- "It was very pleasing working experience with Spirinova team on mining system development. I was impressed by the depth of their knowledge, ability to solve problems quickly and enthusiasm. I would recommend Spirinova to people, who want to get their complex software work done." - Sam Cohen, Founder @Stealth Startup

Website Link: https://spirinova.dev

Location: GNEC-IITRoorkee, Plot No. 20, Knowledge Park II, Greater Noida, Uttar Pradesh 201310
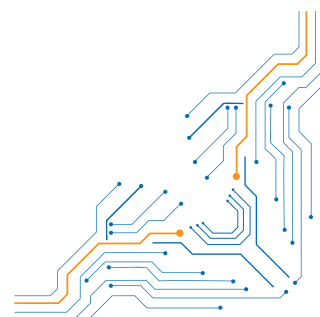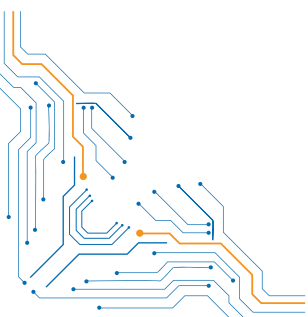
Jyoma Solutions Pvt Ltd

They are a startup in India specifically working to bring Artificial Intelligence to the Defense and Aerospace sector. They believe we can make a difference in the security ecosystem, and safety with reduced costs and increased efficiency. They collaborate and support other startups and efficiently use the strengths of talented experts in the Tech world for a dual-use technology.

Founders: Jyotsna Kaushal and Mamta Rawat

Problem Statement:

The gyro chassis is one of the crucial components for the stabilization of the gunner sight in the T-90 battle tank. The chassis gets a real-time signal from the controller, MEMS gyro calculates angular velocity and position of the controller then sends a signal to stators to do real-time adjustment of both mirrors and also send signals to the gun sensor for adjusting (Stabilizing) T90 Gun. The chassis stabilizes the gunner's sight in both horizontal and vertical directions. Stabilizing the gunner's sight is essential to locate the target position accurately.

Face Recognition System
Integrated in
The CCD Cameras For the Police
Control Room
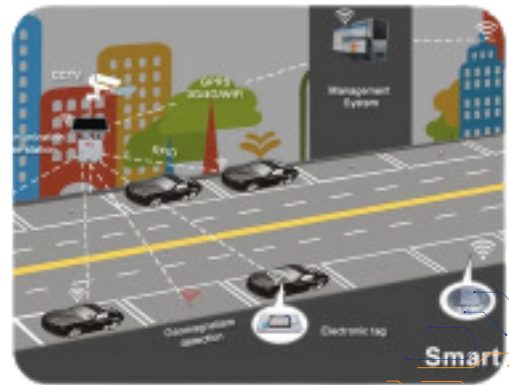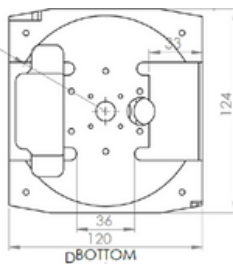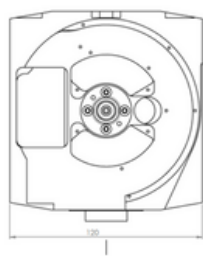
Smart Traffic Management Systems

A cutting-edge, automated solution leveraging wireless sensors for real-time traffic control across city roads, intersections, roundabouts, blind spots, U-turns, and highways. Prototype developed in Dehradun.

Milestones and achievements:

- Jyoma Solutions is technology startup committed towards indigenization of various components and sub systems for the armed forces. The company is lead by a former veteran military officer and consists of a strong team of technical experts from IISc Bangalore, IIT-Roorkee & UTU.
- The company in its short span of existence has won Uttarakhand Startup Grand Challenge 2022 & also bagged the iDEX DISC 6 Challenge hosted by the Defense Innovation Organization under the Ministry of Defense and Recognised by Startup Uttarakhand and iHub- Divyasampark.

Future plans:

Because the Tank T 90 is of Russian origin and a maximum of Asian and African countries use the weapons of Russian origin Upon completion of scaling at domestic levels and fulfilling the requirement of the Indian defence sector This gyro motor and others with similar technologies will be demonstrated to foreign requirements and exports will be included in the business propaganda.

Testimonials:

- "They have been a reliable partner to our company in the field of R&D and innovation. They always work hard to ensure that we get the best solutions for our needs."- Sandeep Shah, MD Optimized Solutions
- "Jyoma Solutions developed a unique platform to empower start-ups to develop products and services based on defence technologies." - Paras Agarwal, MD Precision Advance Systems

Website Link: https://www.jyomasolutions.com

Location: 1st Floor C8, Shiva Complex,
Haridwar Road, Dehradun, Uttarakhand - 248001

Evolved Transportation System Pvt Ltd (ETS)

Evolved Transportation System (ETS) Pvt. Ltd. is a pioneering startup under the Startup India initiative. Specialising in AI-driven intelligent transportation solutions, ETS focuses on reducing emergency vehicle response times through innovations like the SEVA App, SEVA Indicator, and EVMAAS. Our mission is to save lives by optimising urban mobility for emergency responders.

Director: Faizan Khan , Uzma Khan

Problem Statement: Traffic congestion and a lack of real-time communication between emergency vehicle operators and traffic management staff lead to significant delays in emergency response. SEVA App addresses this issue by enabling seamless communication, priority routing, and real-time navigation assistance for emergency vehicles, ensuring they reach their destination faster.

Milestones and achievements:
• Being incubated at Atal Incubation Centre – EMPI, supported by NITI Aayog, Government of India.
• Being funded and incubated at IHUB Divya Sampark from IIT Roorkee.
• Certified by Ministry of Micro, Small & Medium Enterprises
• Certified by Department for Promotion of Industry and Internal Trade
• Selected by the NASSCOM Startup Hub Community.
• Certified by Nation Investment Promotion Agency.
• ETS has filed four patents for its innovative solutions, including SEVA App, SEVA Indicator, and EVMAAS.
• Working with potential client: Delhi Fire Service, Delhi Traffic Police and CATS ambulance.
• Filed three patents in the field of Intelligent Transportation System (ITS). Patent 1: Emergency Vehicle Monitoring and Alert System (EVMAAS) , Patent 2: 3D Virtual Tunnel System (3D VTS) , Patent 3: Stop For Emergency Vehicle Indicator (SFEVI).
• Winner of HDFC CSR Parivartan Grant Challenge.
• SEVA Indicator have been successfully deployed in numerous vehicles across NCR with promising results.

Future plans: ETS aims to expand the SEVA App nationwide, integrating it with smart city infrastructures to enhance emergency response. Future initiatives include AI-driven traffic prediction, vehicle-to-infrastructure communication (V2I), and geofencing technology to further optimise emergency vehicle mobility. Partnerships with government agencies and private sectors are in progress for large-scale implementation.

Video:

https://www.youtube.com/watch?v=44m7xCGDzpw&t=36s

Website Link: www.evolvedsystem.com

Location: Delhi, India

Pherious Inventions Pvt Ltd

Pherious Inventions Pvt. Ltd. is a tech startup specializing in AI, IoT, and automation, focusing on healthcare, smart energy, and sustainable biofuel solutions. Their product, Quenix, uses AI and IoT to optimize healthcare facility management, reducing overcrowding, automating tasks, and improving customer flow, staff management, and business intelligence.

Founder: Ravi Kumar and Mohit Arora

Problem Statement:
Pherious Inventions Pvt. Ltd. addresses inefficiencies in healthcare, energy, and biofuels through AI, IoT, and automation. Its flagship product, Quenix, revolutionizes patient management with an AI-powered robotic receptionist, ensuring faster, smarter, and more accessible healthcare services. Its distinctiveness lies in real-time automation, seamless integration, and enhanced user experience, making it a game-changer in the industry.

Milestones and achievements:
Part of American Centre Entrepreneurship program (Nexus Cohort 20th)

Future plans :

Future plans for Quenix:
Quenix's future plan revolves around ending waiting times and ensuring timely, hassle-free, and high-quality services for both customers and businesses:

For Customers/Individuals:
1. Easily find the service you need.
2. Locate your desired service provider.
3. Book your appointment.
4. Visit only when it's your turn.

For Businesses/Professionals:
1. Register your business.
2. Receive relevant customer leads.
3. Serve customers efficiently when it's their turn.

Value Proposition:
- Receive real-time alerts for delays and arrival times.
- Save time by avoiding long queues.
- Access genuine and quality services.
- Get assistance and guidance for new customers.
- Eliminate the need for inquiries and offers.
- Enjoy customized and personalized appointments.
- Simplify interactions between customers and service providers.
- Reach the right audience and generate more leads.

Website Link: https://www.pherious.com/index
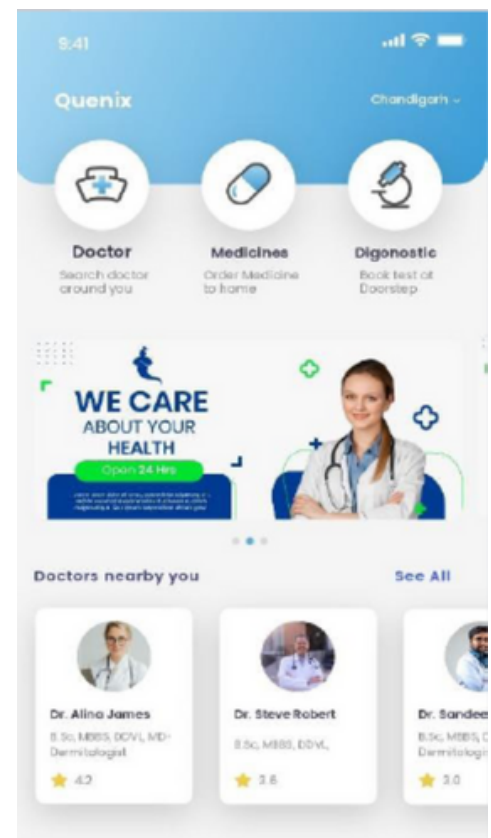
Location: New Delhi and Mohali, India

DHEYA ENGINEERING TECHNOLOGIES PVT LTD
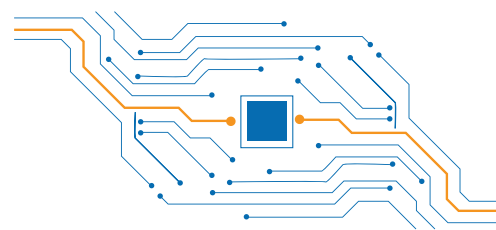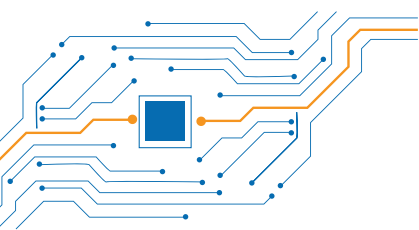
Dheya Engineering Technologies Pvt Ltd is a technology-based product and services company specializing in aero engine design, turbomachinery, and related fields. Founded in 2017, the company is committed to indigenously developing gas turbine technology in India to meet both local and global demands.

Founders: Gurushankara K C (CEO), Abhinav Alva (CTO), Chetan Kumar H K (COO).

Problem Statement:

Currently, gas turbine technology is entirely imported and has been classified as one of the 55 mission-mode technologies critical to defence. The Indian defence sector has a significant demand for micro gas turbines to power UAVs, loitering munitions, and target drones. Dheya Tech is addressing this gap by developing thrust-based engines, starting with a 50kgf engine and expanding to 80kgf and 120kgf models in the future

Milestones and achievements:

- Product design completed
- Dedicated test cell developed for product validation
- Chosen for Startup Karnataka funding (ELEVATE 2023) in aerospace and defense
- Received startup funding from ONGC
- Established key partnerships for manufacturing, testing, and sales
- Formed a technology collaboration with a Czech Republic-based company.
- Generated ₹5.5 crore in revenue
- Advanced Tabletop Aeroengine Lab (ATAL)-successful completed the development and production of ATAL.
- Design of a flexi fuel combustor compatible for hydrogen-based combustion in collaboration with IISc-Bangalore
- Foil Bearing design (IP) and test rig design.
- Developing Micro Gas Turbines in the range of 400N to 2000N caters to both defense and energy applications
- Successfully completed sub-system level testing for its first product, the DET500, and is in the process of prototype testing
- Secured ₹10.5 Cr in seed funding from Unimech
- Won the Karnataka Startup Challenge in 2024

Future plans:

DheyaTech aims to strengthen partnerships through investment opportunities, strategic collaborations, and joint initiatives. Future plans include scaling up engine thrust capabilities and expanding its product line to cater to broader defence applications, ensuring self-reliance in critical gas turbine technology.

DET400 – 100kW or 400N MGT
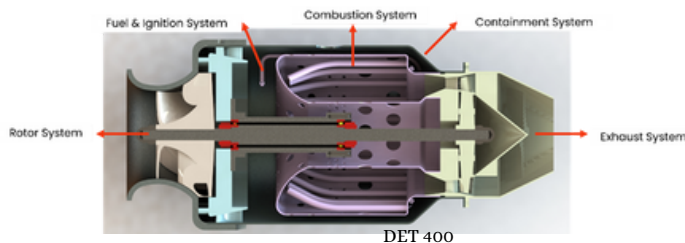
DET 400

Won the prestigious 'Elevate 2023 award' from the Government of Karnataka
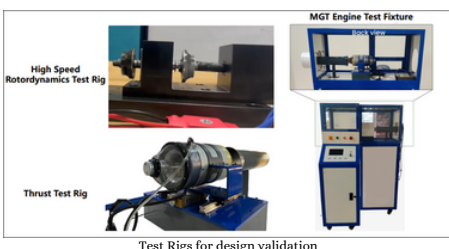
DET 400 Cross Section

Test Rigs for design validation

Our trademark product ATAL has been deployed at a research institute

Website Link: www.dheyatech.com   Location: Bengaluru, Karnataka, India

Nextup Robotics Pvt Ltd

NextUp Robotics pioneers advanced industrial and collaborative robots to enhance efficiency and safety in industries. Their cutting-edge solutions streamline operations in pick and place, powder coating, welding, and inspection. Committed to solving industry challenges, they strive to make automation more accessible and revolutionize the future of robotics in India.

Founders: Kirat Singh, Mr. Shubham Singh, Mr. Dhirendra Kushwaha.

Problem Statement:

Indian SMEs face challenges like inefficient inventory management, slow production rates, a growing skills gap, and high costs with low-quality output. To address this, they aim to enhance efficiency and safety with advanced robots, deploying them across 10 industries this year to drive automation.
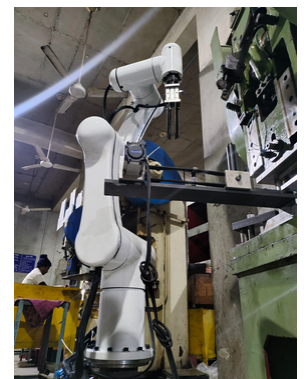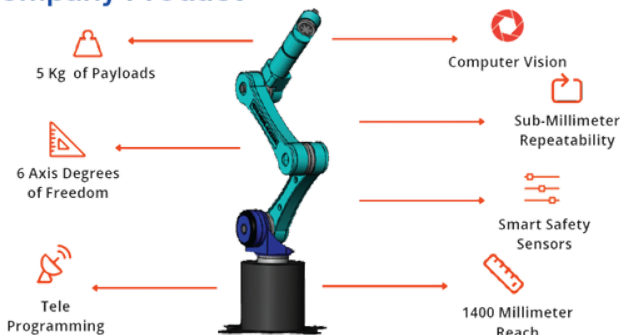
Milestones and achievements:

- Granted two patents on a humanoid robot and a foldable cooler.
- Among the top 15 startups out of 400 applicants.
- Incubated with AKTU support from the government.
- Recognized as one of the top 17 emerging technology startups in India.
- Presented our products to the Honorable Prime Minister.
- Nominated for the "500 Startup nomination" for research
- Recognized by StartInUP, StartupIndia, and Ministry of Electronics and Information Technology.
- Advancing Industrial Efficiency and Safety through Innovative Arm Robots.
- Developed first product, a collaborative robot, and successfully deployed it in the industry.
- Created first industrial robot and synchronized it with CNC machines.
- Received two more robot orders for the glass industry
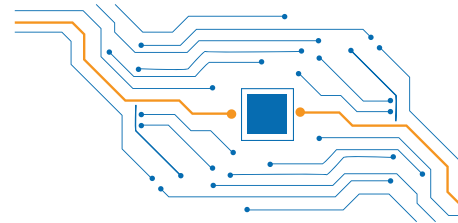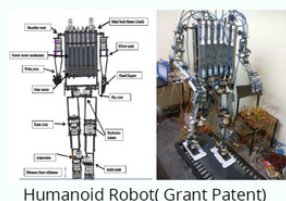
Future plans:

Their future goal is to support Indian SMEs in enhancing production efficiency and workplace safety through advanced industrial and collaborative robots. This year, they plan to deploy robots across 10 industries, fostering the adoption of automation in manufacturing.
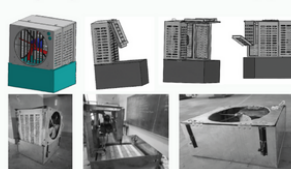

Company Product (Industrial Arm Robot)

- 5 Kg of Payloads
- 6 Axis Degrees of Freedom
- Tele Programming
- Computer Vision
- Sub-Millimeter Repeatability
- Smart Safety Sensors
- 1400 Millimeter Reach

Company's other innovation (1)

SPECIFICATION	
Ht. Of Humanoid Robot	5.5 Ft.
Wt. of humanoid robot	45 KG
Degree of Freedom	20DOF
Max Wt. lifting Capacity	12 KG

Humanoid Robot(Grant Patent)

Company's other innovation (2)

We have a good deal with **symphony** and design a foldable model for exiting model **Movicol 200g XL**.
- Our Team delivered it successfully.
- With this concept, **symphony** optimizes **one-third** of space.
- They reduce Transportation costs.

Foldable Cooler (Grant Patent)

Cleaning Robot

Website Link: https://www.nextuprobotics.com/

Location: Ghaziabad, Uttar Pradesh , India

SmartAlpha Pvt Ltd

AI enable Alpha Generator

SmartAlpha Pvt Ltd is a Fintech company providing AI based algo-trading platform to fund management houses, HNIs, and institutional investors. Apart from this we provide in-house fund management services. Our goal is to Infuse AI to secure Financial health and prosperity of Clients. Using our cutting-edge AI platform, we enable our client to invest in the stock market with confidence and ease

Founders: Ramesh Bandi

Problem Statement:

Smart Alpha is using AI ENABLED DMA approaches to find market opportunities that maximize the return and minimize the risk. Their Automatic AI tool, will overcome fear, greed and emotion and will help to take right decision at right time.

Milestones and achievements:

- Developed iFrame Technology for B2B with the automatic trading system.
- Created 100+ trading models for all types of clients (speculators, hedgers, and arbitrages).
- Developed a robust order management system with decision-making analysis.
- Developed all the broking houses' APIs solution for ATS.
- Certified RA.
- Working on SEBI licenses to deploy at stock brokers platform
- Smart Trader/Iframe White Label- This is a mobile app with Automatic Trading System (API Enabled).
- Screeners (step towards to the trading models)
- White label solution for web browser - A web product (web pages) – a white label solution for integrating with B2B clients into their platform.
- NAV-APP - This app will help clients to trace their investment status
- Research Analyst and PMS certification achieved
- Tested and implemented for moderate size of funds
- Achieved asset under management (AUM) of 9 Cr and Successfully tested HFTs, Arbitrages and Hedging Models with minimum 15% p.a. return.
- Completed certifications for Research Analyst, Portfolio manager, and Charted financial planner.
- Tested variety of models with DMA tool for different market scenarios.
- Installed iFrame technology for top brokers like Nirmal Bang Securities Pvt. Ltd. and Aditya Birla Money Limited
- Developed and installed HNIs models on their trading platform. Delivered 21% returns in 2022-2023 financial year to our HNIs where benchmark Index returns was -2.5%.

Future plans: Business Expansion: Growth in In-house fund management, Establishing into US Markets, B2B services for investment banks and fund houses, Continued research & development to handle emerging market conditions, liquidity & scalability, Increasing infrastructure as per requirement

Celebrity Client Like:
Nagarjuna (actor)

Website Link: www.smartalpha.co.in

Location: Hyderabad, Telangana, India

TechXR Innovations Pvt Ltd

TechXR, founded on January 7, 2021, by a team of IITians, is an award-winning startup based in Bhopal. The company is on a mission to democratize access to emerging technologies like Augmented, Virtual, and Mixed Reality.

Founders: Prashant Kumar Mishra (Founder & CEO) and Abhishek Prabhat (CTO & Co-Founder).

Problem Statement:

Traditional education struggles to make complex concepts engaging, while many devotees face long waiting queues, limited darshan time, and inaccessibility for the elderly & disabled at revered temples. Geographic and physical barriers prevent easy access to spiritual experiences. There is a need for innovative AR-VR solutions to make education more visual and temple visits immersive from anywhere.

Milestones and achievements:

- Early R&D, Controller Prototyping, and Design Validation.
- Angel Investment of ₹27 Lacs at a ₹10 CR valuation.
- Developed 10+ titles, SDK, and Oculus porting.
- Recognition in 5G Hackathon and Edupreneur Challenge.
- Launched courses at NIFT and initiated internships for 200+ colleges.
- Collaborated with iHUB DivyaSampark, IIT Roorkee.
- Secured ₹7.1 Cr Seed Funding at ₹45 Cr post-money valuation.
- Achieving monthly revenue of ₹35 Lacs.
- Commercially Available at Shri Kashi Vishwanath Jyotirlinga Temple , Shri Mahakaleshwar Temple, Vaishno Devi Temple
- Won 2 awards (out of total 10) in India Mobile Congress Dec'23
- holds patents for its innovations
- Produced 5000 units, selling over 1000
- Granted patents, streamlined manufacturing, produced 5000 units, and sold over 1000 units.
- Software: Developed a developer SDK with Oculus porting and introduced XR Blocks, a user-friendly platform for non-coders.
- Learning: Launched an LMS with a freemium model, along with advanced learning modules.
- Created 250+ STEM-based XR experiences, enrolled 2000+ paid students generating $250K+ in sales, leading to successful student placements. We also initiated AR 3D-powered Smart Classrooms in Government Schools and established a Spiritual Experience Centre at Mahakal Lok, Ujjain, in 2023.
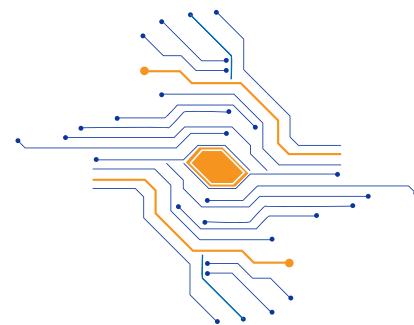
Product Video

Customer Reviews (4.3 Rating on Amazon)
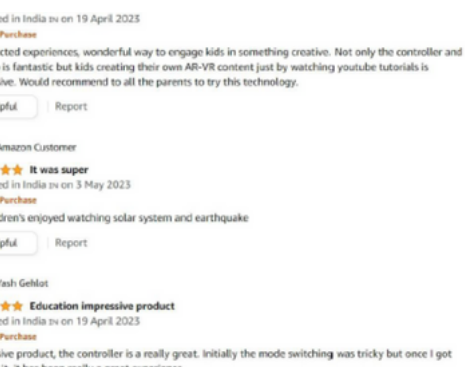
signed an agreement to launch immersive experience centers across Ayodhya

Rajkummar Rao Indian actor

Website Link: https://techxr.co/

Location: Dehradun, Uttarakhand., India

Unscene Innovations Pvt Ltd

Unscene Innovation is an AI company that develops predictive analytics software for various industries such as shipping, defense, automotive, energy, and aeronautics. The company uses machine learning algorithms to provide actionable insights and identify failures proactively.

Founders: Cephas Joseph

Problem Statement: The problem being addressed by Unscene Innovation is the high cost and downtime caused by unexpected failures in complex engineering systems. The company's platform analyzes all relevant information, including sensor data, SCADA data, asset management systems and external data sources to reduce maintenance expenditure and increase operational efficiency.

Milestones and achievements:

- Being recognized as a startup under the Startup India initiative promoted by the Department of Promotion of Industry and Internal Trade (DPIIT), Ministry of Commerce and Industry.
- Being awarded for their efforts towards the development of Indigenous technology using Artificial Intelligence for the Defense by the Government of India.

Future plans:

- Developing AI models for predicting failure in the AFV's (Armored fighting Vehicles) for the Mechanized units of the Indian Army.
- Developing an edge compute device for the monitoring of fishing boats on the Indian Coast.
- Designing a computer vision based solution for enhancing the situational awareness of the T-72 Tank Commander.

Ongoing Projects

Website Link: https://www.unscene.xyz/
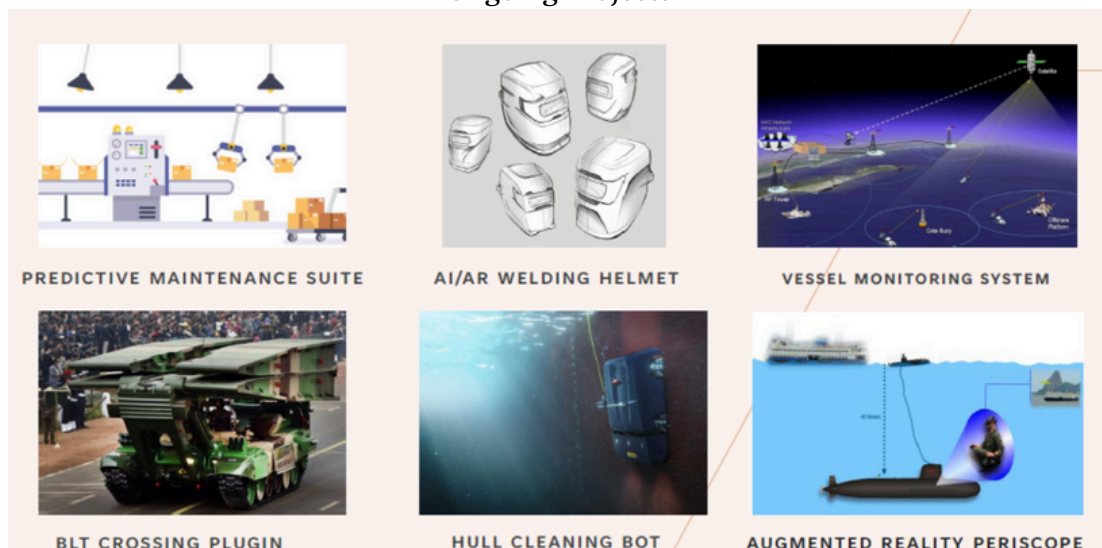
Location: Dehradun, Uttarakhand, India

IDR R&D Development Pvt Ltd

IDR Research and Development Pvt Ltd is at the forefront of NextGen drone technology, revolutionizing India's approach to self-reliance in the drone industry. They're committed to delivering innovative and cost-effective drones made in India. Beyond drones, they offer comprehensive services in 3-D modeling, prototyping, product design, and R&D, partnering with the Indian army and actively seeking further opportunities. As the only Indian startup dedicated to designing and developing nano drones, they're advancing military surveillance with AI integration for enhanced effectiveness and accuracy.

Founders: Mr. Mayank Pratap Singh , Mr. Ankur Yadav , Mr. Vyom Rajan Singh

Problem Statement: IDR Research and Development Private Limited is addressing critical challenges in the Indian drone industry. India lacks indigenous nano drones and related technologies, resulting in a lack of proper applications and situational awareness for troops on the ground. Importing UAVs from other countries is financially burdensome. IDR Research and Development Pvt Ltd is a pioneering R&D-based startup, focusing on developing innovative, cost-effective, Made in India drone solutions, including nano drones, and integrating AI to enhance military surveillance accuracy and effectiveness.

Milestones and achievements:

- Shortlisted for one of the biggest startup India events Startup Innovation Week 2022
- Winner in Sharda tech expo 2022 organised by DRDO and STARTIN UP
- Secured all India position 3 in idex Indian navy challenge across India
- The only company which qualified for Him-Drone-Athon in the nano drone category Organized by the Indian army.
- Doot Mk-1, India's first military-grade, domestically produced Nano drone designed for both indoor military and civilian operations
- Developed to assist the Indian Armed Forces in counter-terrorism
- successfully designed and developed India's First Made in India military grade Nano drone Doot Mk-1 with the assistance of Army Design Bureau (ADB) and Indian Army Entrepreneur Cell.
- supplied more than ten pieces of Doot Mk-1 to different elite units of the Indian Army

Products

IDR AGOCHAR MK-1
Always ready to go

IDR DOOT MK-1
The First Responder

PARUSH MK-1
The Instant Destroyer

IDR MAROOT MK-1
Control that you want

Website Link: https://www.idrrnd.com/

Location: Greater Noida, Uttar Pradesh, India

Mythyaverse Pvt Ltd
VRPlaced

MythyaVerse is pioneering a shift towards a global skills-first economy where opportunities are truly accessible to all. **VRPlaced** that is now transforming career readiness by utilizing proprietary algorithms to create adaptive AI interviewers. These advanced tools leverage multi-modal AI, computer vision, and natural language processing for comprehensive candidate assessment, significantly improving interview performance and reducing time-to-hire. VR Placed exemplifies this vision by providing immersive interview preparation and recruitment solutions that enable both individuals and organizations to thrive in an increasingly digital-first world.

Founders: Mr. Anmol Gupta , Mr. Vishal Pandey , Mr. Anuj Kumar Garg

Problem Statement: In India's challenging job market, where unemployment stands at 9.2% and higher education faces a severe resource crunch with student-teacher ratios of 36:1, traditional career preparation methods are failing both students and employers. While companies struggle with a 44-day average hiring time and $4,700 cost per hire, they face an additional challenge from AI-assisted applications that make it harder to identify genuine talent. VRPlaced addresses this dual crisis by providing an AI-powered, immersive solution that not only democratizes access to quality interview preparation but also helps employers cut through the noise to identify and assess real talent efficiently.

Milestones and achievements:
- Wadhwani Liftoff Spark cohort selected for demo day and selected for Propel cohort
- 5000+ AI Interviews conducted
- Industry Partnerships: Extramarks, FourClips, Hoping Minds, Freela, MyFurries, and Beesolver Technologies.
- Conducted pilots (paid/unpaid) at institutions like COER University, KR Mangalam University, Polytechnics under Directorate of Technical Education Uttarakhand, and IIIT Delhi, specifically focused on student interview preparation.
- Signed a deal with Hoping Minds, a placement preparation agency, to facilitate 10,000 AI interviews for student preparation.
- Conducted pilots for recruitment with IIT Roorkee, MyFurries, Toyow, and Fourclips, resulting in successful hires for various roles.
- Active prototype with showcase events, expanding reach through collaborations.
- Runner up at MeitY Startup Challenge 2024
- Patent Applied " A Virtual Reality (VR)-Based Interview Training System with Mental Health Support Functions and Method Thereof"(202411058263)

Future plans: MythyaVerse plans to expand its presence across India's educational institutions, targeting 1 million users on the VRPlaced platform in the next 2 years. The company aims to introduce panel interview simulations for UPSC and MBA candidates, develop AI-driven learning modules, and expand regional language support.

Products
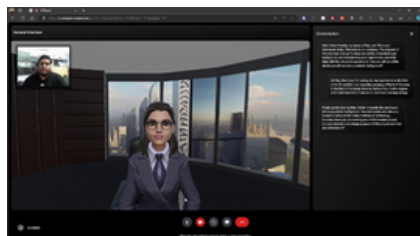
Launching VRPlaced CoE at K R Mangalam University –

Shri Trivendra Singh Rawat, the former Chief Minister of Uttarakhand launches the VRPlaced CoE at COER University

Website Link:www.vrplaced.ai /

Video Links:
i. For Job Seekers
ii For Recruiters

Location: GNEC-IIT Roorkee, Plot No. 20, Knowledge Park II, Greater Noida, Uttar Pradesh 201310

Mythyaverse Pvt Ltd

GitaVerse:

MythyaVerse is pioneering a shift towards a global skills-first economy where opportunities are truly accessible to all. They have developed a Gita Verse platform, which combines ancient wisdom from the Bhagavad Gita with modern technology to enhance mental health through immersive spiritual experiences and personalized guidance.

Founders: Mr. Anmol Gupta , Mr. Vishal Pandey , Mr. Anuj Kumar Garg

Product/Application use cases :

i. Spiritual guidance and mental wellness.
ii. Making ancient teachings accessible to digital natives.

Problem Statement:

In today's fast-paced digital world, younger generations are increasingly seeking spiritual wisdom and mental wellness support, yet finding themselves disconnected from traditional methods of accessing ancient knowledge like the Bhagavad Gita. The challenge is threefold: traditional spiritual learning formats struggle to engage digital natives, authentic spiritual guidance is often inaccessible or time-consuming to access, and modern life's complexities require new ways of interpreting timeless wisdom. GitaVerse addresses these challenges by providing an AI-powered, immersive solution that makes the profound teachings of the Bhagavad Gita accessible and relevant to contemporary life through cutting-edge technology.

Milestones and achievements:

- Secured ₹5 Lakh Prayas Grant from IIT Mandi iHUB
- Selected for Microsoft for Startups Program
- Academic Collaborations: IIT Roorkee, IIT Delhi, IIIT Delhi, IIT Mandi, IIT Jammu, COER University, K R Mangalam University, and IIM Visakhapatnam.
- Showcased at IIT Kanpur (TIPS) and other key events, gaining significant interest from educational and spiritual organizations.
- Market-ready with plans to expand to 1 million users within two years.
- Active prototype with showcase events, expanding reach through collaborations.
- Promotes mental wellness and personal development through accessible spiritual learning.
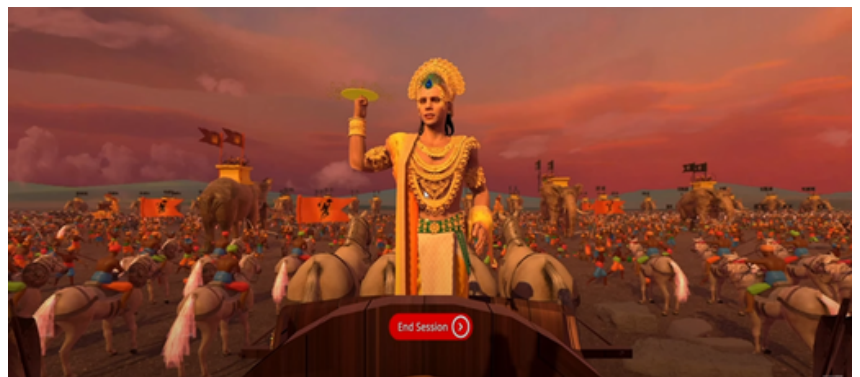-

Future plans: Active prototype with showcase events, expanding reach through collaborations.

 Video Link: GitaVerse Overview

Products

GitaVerse embarked on an extraordinary voyage at the Ramlila Event in Netaji Subhash Place, Delhi.

Website Link:www.vrplaced.ai /

Location: GNEC-IIT Roorkee, Plot No. 20, Knowledge Park II, Greater Noida, Uttar Pradesh 201310

Lenviz Technologies Pvt Ltd

Lenviz Technologies is a deeptech startup working in the "Aerospace and Defence" sector and specializing in High altitude surveillance and cargo drones and have applied for patent for 202411061797 "HIGH ALTITUDE SURVEILLANCE UAV SYSTEM AND METHOD THEREOF"

Founders: : Mr. Prabhat Sharma, Mr. Akash Patil, Mr. Anirudh Putsala

Problem Statement: High Altitude Surveillance and Cargo deliveries - We push the boundaries of what's possible with drone technology, specialising in high-altitude operations.

Titan Mini - High Altitude Surveillance Quadcopter

Milestones and achievements:
- Won the NSG Hackathon for GPS denied navigation using drones in 2022
- Won 3.1 Cr contract from the Northern command for High Altitude Surveillance Drones (6500 m AMSL)
- Cleared 2 more Technical evaluations with the Army for "Building Intervention Drone" and "DOOAF - Direction of own artillery fire drone"
- Project Sanction Order of a Make 2 project (Counter Swarm Drones) from the Army Air Defence, MoD.
- Commercial bid pending and planned for completion in First Quarter 2024

Future plans: Plan to raise 10 crores in early 2025

Products - Titan Series of UAVs

Titan Mini

High Altitude Surveillance Quadcopter with ceiling limit of 6800 m AMSL
Note: Ceiling limit for most HAL helicopters is 6500 m

Titan Cargo V1

Best in class endurance of 90 min with 15 km range
Payload delivery capability
- 10 KG - 60 min at 5000 m AMSL
- 20 KG - 45 min at 5000 m

Titan Micro

Close combat operations drone with GPS denied capability and can fly both indoors (beyond 4 walls) and outdoors (5 km) 300 gm payload capability

Delivered an order of 3.31 Crores to the Indian Army

GNEC IIT Roorkee Greater Noida campus
Location: Greater Noida

Website Link:www.lenviz.com

SUSTAINICO TECHNOLOGIES PVT LTD

Smart Water Flow Meter

Sustainico Technologies Private Limited is an Indian startup focused on developing smart metering solutions for water management. By integrating smart water meters, communication gateways and digital interfaces, the company aims to enhance water conservation and optimize resource utilization.

Founders: : Avinash Garg and Sanjeev Krishnan

Product/Application use cases:

The flow meter has versatile applications across residential, commercial, and industrial sectors. It enables accurate water usage tracking in households, efficient irrigation management in agriculture, and optimized water distribution in utilities. In industries and smart cities, it aids in monitoring large-scale consumption, detecting leaks, and conserving resources. Its real-time data capabilities ensure precise billing and sustainable water management, making it valuable for diverse use cases.

Milestones and achievements:

- currently in the early traction stage, generating Rs. 1.77 lakh ($2,100) in revenue. This revenue comes from the booking of 25 smart water meters (15 + 10 units), reflecting growing market interest and adoption of its IoT-based water management solutions. This milestone demonstrates the startup's potential for scaling and driving sustainable water management practices.
- successfully deployed its IoT-enabled water meters in industrial settings, focusing on optimizing water consumption and reducing wastage. The meters provide real-time monitoring, leak detection, and usage analytics, ensuring precise management.
- Sustainico's smart water meter technology is in the early commercialization stage. Our early Traction marks the beginning of market validation, with growing customer adoption and positive feedback on its IoT-driven water management capabilities.
- 25+ meters installed in industries.1.)

Testimonials:

"Sustainico's vision aligns perfectly with the urgent need for smart water management. Their technology-driven approach has the potential to revolutionize how we monitor and conserve water." – Industry Expert

Future plans:

Sustainico aims to expand its operations across India before entering international markets facing water scarcity. The company is actively seeking strategic partnerships for investment, research collaborations, and large-scale implementations in both public and private sectors.

Website Link: https://sustainico.in/

Location: IIT Roorkee

Cognosia Institute Pvt Ltd

Wread.ai

Cognosia is a neuroscience research-based EdTech firm founded by Neuroscientists, Technologists and Educators. Their mission is to make the world, future ready by assessing and imparting critical cognitive skills including problem solving skills, reasoning, working memory and creativity.

Founders: : Sridhar Velamakanni, Mohan, Visweswar Animela

Product/Application use cases:

Wread.ai is a phonics-based, complete reading and writing system. Powered by cutting edge AI and state of the art speech recognition, it is the first of its kind, fully interactive reading and writing application. Meant primarily for 4 - 9 year old children, it can also be life changing for older children with reading or spelling difficulties.

Testimonials:

- Cognosia has been a turning point in my life. I struggled with reading and writing all through school. Towards the end of 7th grade, my father found Cognosia. Cognosia diagnosed my problem and helped me able to write and read in just a few months. My instructor always made the class interesting and their books and games are very interesting and informative.- S. Dhiraj Reddy, Hyderabad
- I would recommend Cognosia for Phonics teaching and would like to specially recommend the tutors who has helped my son in such a way that today my son read and write so well which is unexplainable. - Tejashree Alwal
- The SmartChoice career reports were very insightful, and the student feedback was excellent. There was also a career seminar for parents which was very well received. Overall, I'm really happy that we chose Cognosia and would recommend it to any school that is looking for career counseling for students.- Mr. Mukesh Parasar, Principal (Army Public School, Rangapahar)


Website Link: www.cognosia.com

Location: Hyderabad, Telangana, India

EnrgEnv Smart Chemicals and Materials Pvt. Ltd. has developed an innovative synthesis method to produce LLZO, a solid electrolyte used in all-solid-state lithium-ion batteries. This method significantly lowers production costs by leveraging locally sourced raw materials and is designed to be easily scalable.
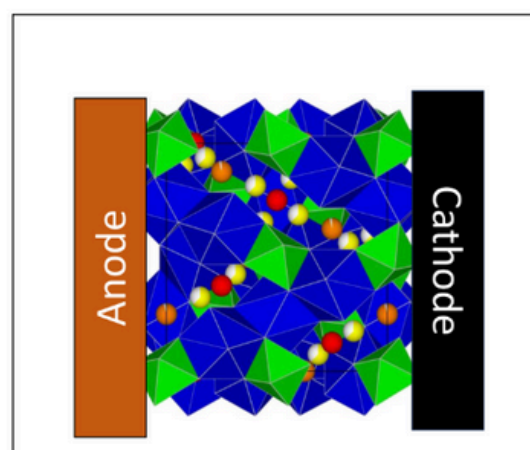
Founders: : Prof. Paritosh Mohanty, Manas Ranjan Katual, Bishnupriya Swain

Problem Statement: The chemical and battery industries in India face significant challenges in securing raw materials and reagents. Achieving reproducibility in the desired properties, ensuring timely delivery, and maintaining cost-effectiveness are major hurdles in the development of new and sustainable products.
Our startup has developed an innovative synthesis method to produce LLZO, a solid electrolyte used in all-solid-state lithium-ion batteries. This method significantly lowers production costs by leveraging locally sourced raw materials and is designed to be easily scalable.

Future plans: Our primary future plan is to manufacture all the chemicals that are currently imported into India.
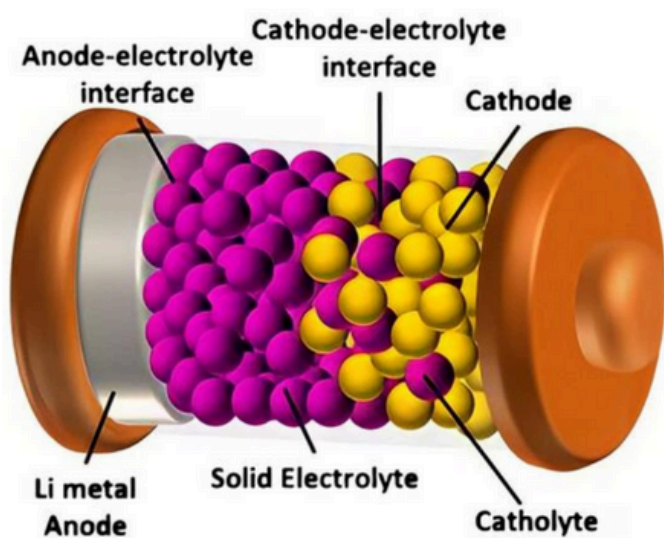
LLZO(Lithium Lanthanum Zirconium Oxide) Solid State Electrolyte

Website Link: https://enrgenv.com/

Location: Roorkee, Haridwar, India

Stingray Robotix Pvt Ltd

Semi- Autonomous Hull Cleaning Robots, STINGRAY ROBOTIX developing a fleet of remotely operated hull crawlers aiming to reduce ship emissions and fuel costs by cleaning biofouling using cavitation water jets during loading and unloading operations.

Founders: : Madhup Juneja, Jasjappan Singh

Problem Statement: Biofouling on ship hulls increases greenhouse gas emissions by up to 20% and costs the global shipping industry billions in excess fuel. At Stingray Robotix, building the future of underwater maintenance through intelligent, autonomous robotics. flagship product is a modular, AI-powered magnetic hull crawler that uses cavitating water jets to clean ship hulls during port stays—without dry docking, divers, or downtime.

Milestones and achievements:

- Runner up at MeiTY grand challenge at ITiC, IITH in July 2024
- Among the 5 shortlisted startups out of 500 shortlisted for regionals at IITB for FutureX 2025 organized by campus fund and Google Cloud

Future plans: focused on scaling both our technology and impact. In the coming year, STINGRAY ROBOTIX aim to deploy a fleet of autonomous hull cleaning robots across major Indian ports, reducing fuel consumption and emissions for hundreds of ships. As they grew, they planned to expand internationally and diversify their offerings by developing advanced robotic systems for offshore platform cleaning, underwater infrastructure maintenance, and industrial tank inspections. Their long-term vision was to become a global leader in marine robotics, driving sustainable operations in the maritime and energy sectors.

Product Features: Stingray Robotix clean ship hulls using a remotely operated crawler equipped with cavitaiton water jets eliminating the need for human divers during loading and unloading operations.
- Magnetic drive
- High press cavitation jet
- 24/7 operational

Website Link: https://www.stingrayrobotix.com/

Location: Saharanpur, Uttar Pradesh