

FROM CODE TO COMPASSION

HOW AI IS MAKING
A DIFFERENCE



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foundation

Capgemini 

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Anurag Pratap
Vice President and Head of CSR-India, Captergini

At Captergini, we are committed to using technology to make a positive impact on society. Through our support of multiple projects that use advanced technologies, we aim to contribute to the ongoing development ecosystem. Our focus on AI has enabled us, and other CSR players like us, to tackle some of the most crucial issues affecting people, planet, and prosperity. The solutions that we have developed have immense potential to drive positive and lasting change. Over the past few years, our Digital Inclusion program in India has created innovative projects that prioritize the needs of marginalized communities. These projects develop human-centric solutions, support startups, and provide incubation, as well as open-source online platforms that cater to education, skill development, environment, and healthcare.

As a global leader, we have teamed up with numerous foundations, NGOs, and expert agencies to utilize the power of technology for social welfare. Our corporate social responsibility (CSR) initiatives are driven by the rapidly developing and innovative world of cloud, data, AI, connectivity, software, digital engineering, and platforms. Our partnership with the nasscom Foundation is highly valuable in leveraging AI to create pioneering solutions for societal problems. The Telangana AI Mission (T-AIM) program exemplifies the transformative potential of AI in solving use-cases in diverse domains, resulting in a positive impact on society. We have observed the far-reaching impact it has had on innovators across the country, including AI startups and university students, who participated in the Grand Challenges. While the most exceptional solution providers were recognized, awarded, and given the chance to pilot their solution in a selected thematic area, the participation of many startups is a testament to the incredible interest AI has generated for substantial application.

We are thrilled to witness numerous partners from the social ecosystem and government agencies joining forces to provide an excellent opportunity to leverage the open innovation model for introducing outside-in innovation. The resourcefulness of the solutions indicates the ever-growing potential of AI and the willingness to employ it for social good. We believe that this compendium will inspire more people to step forward and contribute to this journey of making a meaningful impact.



Jayesh Ranjan

Principal Secretary-ITE&C and I&C, Government of Telangana

As we continue to witness the rapid advancements in technology, it is important that we recognize and celebrate those who are using it to make a positive impact in our society. It gives me immense pleasure to introduce this compendium that honours 15 startups that have utilized Artificial Intelligence to achieve social good. The remarkable work that these startups have done is a testament to the power of technology when it is used for the betterment of society. Their innovations have the potential to make a real difference in the lives of people, whether it is in the fields of healthcare, education, or sustainability. I hope that this compendium will serve as an inspiration to other innovators and entrepreneurs to harness the power of technology for social good. It is my honour to recognize and celebrate the accomplishments of these startups, and I wish them all the best in their future endeavours.



Rama Devi Lanka

**Director-Emerging Technologies Wing, IT Department, Government of
Telangana**

I am in awe of the transformative power of AI showcased in this compendium. These stories illustrate how AI has revolutionized social good initiatives in India. From healthcare to education and climate change, AI's impact is profound. Let us celebrate those who have harnessed its potential, inspiring us to continue leveraging technology for equitable progress. Together, we shape a future where innovation and compassion converge, creating a better world for all.



Nidhi Bhasin
CEO, nasscom foundation

AI's role in addressing real-world social challenges cannot be overemphasized, especially in areas such as health, education, and agriculture. However, to fully realize the potential of AI and promote sustainable development, technology must reach the last mile.

Nasscom Foundation promotes digital equity and access through TechForGood initiatives, fostering social innovations for positive community impact and empowering young innovators for an inclusive future. To achieve this goal, the key is collaboration and as part of the nasscom ecosystem, we have the privilege of partnering with organizations like Capgemini, with a shared vision of tech-innovation led growth that spurs positive and inclusive social impact.

T-AIM is an inspiring example of how collaborations can be instrumental in transformation that leaves no one behind. This project showcases AI's potential to solve social issues, inspiring impactful action. Kudos to all participants for exceptional solutions; their efforts will inspire others towards a brighter future.



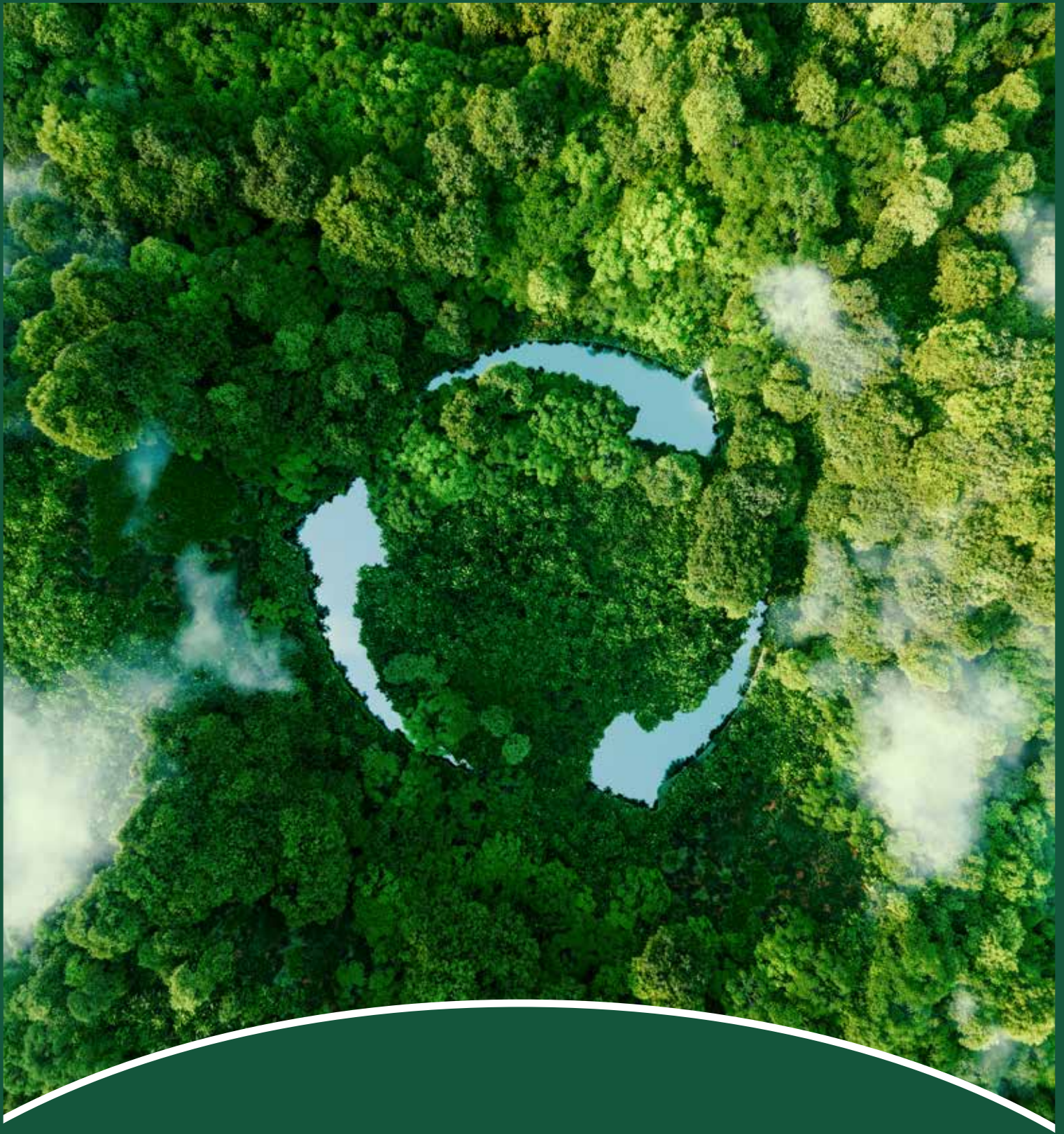
Praveen Mokkalapati
Lead, Telangana AI Mission (T-AIM)

The AI for Social Good Awards highlights the role of technology as a force multiplier for social impact, and that we have a responsibility to use it to create an equitable society for everyone. I am thrilled to see this compendium that celebrates a select few startups for their cutting-edge work that have leveraged AI for social good applications. These startups have shown remarkable contributions in areas such as healthcare, education, and sustainability. Their work is inspiring, and their innovative ideas and cutting-edge solutions have the potential to revolutionize entire industries and change the lives of millions of people. I hope that their work will inspire others to use technology to create a better future for all. On behalf of Telangana AI Mission, I thank Capgemini and everyone else that made this possible.



Ankit Bose
Head of AI, nasscom

AI has the potential to make a significant impact on social issues such as climate change, healthcare, and education. The World Economic Forum predicts that AI could help reduce global GHG emissions by up to 4% by 2030. A Stanford University study found that an AI algorithm was able to accurately diagnose skin cancer at a level comparable to board-certified dermatologists. McKinsey & Company reports that personalized learning can improve student outcomes by up to 30%, and AI-powered tutoring systems have been shown to significantly improve math and reading scores. Given AI's potential to create positive impact on society, it's important to recognize and support startups that are working on AI-powered solutions to social problems. By recognizing and supporting startups that are working to use AI for social good, we hope that these startups gain visibility and access to resources they need to scale their solutions and make an even greater impact.



SUSTAINABLE ENVIRONMENT



Clean Air Solutions with Clairco

Air pollution is one of the major problems that we face today. The air we breathe affects our health, productivity, and overall well-being. Clairco, a clean air company, has been working towards providing clean air in commercial and office spaces since its inception. Clairco's mission is to make clean air a fundamental right for all citizens. The company has been making strides in the clean air industry and has received multiple accolades and awards for its innovative solutions.

Clairco was founded by Aayush Jha and Udayan Banerjee. Aayush Jha has nine years of sales and business leadership experience in startups, and Udayan Banerjee has ten years of product, operations, and strategy leadership experience in startups and corporates.

How the 'Zero Capex Model for Clean Air' Works

Clairco offers its clean air solution to clients through a Zero Capex model. This means that the clients do not have to pay any upfront cost to get clean air on their premises, be it for office spaces or commercial properties. The company retrofits existing air handling units with its clean air technology and offers the service on a subscription model where the clients pay monthly. This makes Clairco's clean air solution affordable and accessible for all.

The company guarantees clean air and provides comprehensive end-to-end service, including filtration, decontamination of air, pathogen removal, and monitoring on a real-time basis. Clairco is also working towards energy efficiency, ensuring about 20% saving in energy by regulating the chilled water consumption in the air handling units (AHUs). All of this is done at Zero Capex with no initial cost to the clients. This ensures that clients get the best possible clean air solution without any hassle.



Aayush Jha
CEO & Co-Founder



Udayan Banerjee
CPO & Co-Founder

Clairco is the only company in the world that guarantees clean air. It does so by signing a service level agreement (SLA) with the client. If Clairco fails to meet the requirements or the levels mentioned in the SLA, they do not charge for that month. This shows Clairco's commitment to providing clean air and ensures that clients get the clean air they pay for.

Feature-rich offering

Clairco also provides real-time monitoring of the air quality. This monitoring system ensures that the air quality is maintained at all times and provides a constant update on the quality of the air. This ensures that the air quality remains at the highest level possible, providing a safe and healthy environment for all.

AI is used by Clairco to analyze the air quality in real-time and make necessary adjustments to the system to ensure the air remains clean and safe to breathe. By providing clean air, Clairco's technology ensures that people can live and work in a healthy environment, free from the harmful effects of air pollution.

The impact of Clairco's clean air solution goes beyond



just improving health outcomes. Poor air quality also has economic implications, as it can lead to decreased productivity, increased healthcare costs, and reduced quality of life. Clairco's air filtration and decontamination system can help mitigate these effects.

The amount of energy saved through Clairco's solution, in turn, pays for the clean air in the surroundings. This makes Clairco's clean air solution cost-effective in the long run. Companies can save almost 20% of the cost when compared to other solutions present in the market.

Future Plans for Clean Air

In addition to energy efficiency, Clairco is also preparing to expand in the direction of carbon capture. Companies are looking forward to being carbon

neutral, and incorporating carbon capture helps them in this regard. Regulating the amount of CO₂ in the workplace also reduces the need for taking in fresh air, thus reducing the load in the AHU, which in turn helps in energy savings for clients. Clairco is looking to help its clients in regard to energy efficiency and carbon capture in their air handling units.

Clairco is a clean air company that is making a difference in the air we breathe. The company's innovative solutions and commitment to providing clean air have earned it multiple accolades and awards. The Zero Capex model and guaranteed clean air make Clairco's clean air solution affordable and accessible for all. With its focus on energy efficiency and carbon capture, Clairco is looking to make a bigger impact in the clean air industry.

For more information, visit www.claircoair.com



CredQuant: Empowering enterprise sustainability with perspective analytics



When a corporate institution grows there is a significantly high volume and variety of data and events to manage. Corporate and financial institutions have to monitor and manage this data manually, which is both cumbersome and expensive. Not only the manual approach is impractical but also there is a high risk of identifying financial and sustainability-related data. In comes CredQuant, one of the top fintech startups focused on green technologies. As a leading AI-powered financial technology company CredQuant Solutions specializes in Risk, ESG and Data solutions.

Although a relatively new company, CredQuant was not only declared a winner of the Nasscom India FinTech Awards but was also listed among the world's 100 innovative AI companies in financial services in 2023. With a unique and leading vision of a leading AI-powered financial technology service provider, CredQuant became the solution for financial institutions and corporations.

In order to empower clients to make informed business decisions CredQuant successfully transforms complex data, risks, and regulations into a clarity-based solution. A number of members of the company's leadership team have extensive experience in technology, sustainability, and risk management. Angel investors with past CxO experience in the banking and financial services industry have seed-funded CredQuant. As a result of over 100% growth in revenue over the last two years, the company has become profitable in 2022. Originally CredQuant is headquartered in Singapore with offices in India, Canada and Australia.

CredQuant Sustainability Program

Started in 2021, CredQuant was incorporated with a vision to leverage data and artificial intelligence to empower companies with perspective analytics to enable better decision-making in the corporate world. The Singapore FinTech Association has listed CredQuant as a Top 100 Innovative AI company in financial services.



Prabhash Chandra Mishra

Chief Operating Officer

The CredQuant Sustainability Platform allows corporate clients to automate ESG disclosure reporting aligned with international standards such as GRI, SASB, and TCFD. This platform also enables companies to easily collect Financial and ESG data from their supply chain vendors for ongoing risk due diligence. With the data collected, companies can effortlessly run on-demand internal credit and ESG risk scores.

Using the CredQuant Risk score, companies can screen and classify publicly available news and events related to their industry, competitors, clients, and vendors in real time. Moreover, the platform automates the assessment of corporate credit risk and environmental, social and governance risks, peer comparisons, and industry benchmarking. With the help of the ESG score, it is much easier to screen vendors and generate reports on decarbonisation strategies for supply chain emissions. The clientele of CredQuant includes both large and small corporations including digital lending platforms, banks, capital markets, asset managers, and insurance companies.

NextGen AI-Powered Technology

Not only does CredQuant offers insights into business and technology consulting but also successfully

manages services and staff augmentation support. Using CredQuant's Next Gen AI-powered hyper-scale SaaS technology and microservice APIs, the user is able to integrate their existing infrastructure and customize the solution to meet the exact requirements. Through these services, companies find it easy to speed up their digital transformation journey. With pre-built digital accelerators, CredQuant swiftly accelerates innovation and new product development using its deep industry expertise in risk, sustainability, data, and emerging technologies.

CredQuant has entered into strategic alliances with leading technology system integrators like LTIMindtree and Happiest Minds in India and leading industry associations like the Investment Management Association of Singapore. Not only is CredQuant an

esteemed member of the Singapore Computer Society but it also signed the promotion of the AI Ethics and Governance agenda. With these alliances, CredQuant can serve clients of all sizes in both the domestic and international markets.

As a result of these partnerships, CredQuant is able to offer the innovation, agility, speed, and cost efficiency of a startup. In addition, it comes with maturity, consistent quality and timely execution, as well as the trust and reliability of a large organization. In the coming years, CredQuant aims to expand its strategic alliance to enable clients to access its services directly and with its ecosystem partners. With the aim of continuous innovation partnered with cutting-edge technology, CredQuant is all about solving real-world problems.

For more information, visit www.credquant.com



Fluid Robotics: Enabling India's wastewater surveillance



News about how Omicron and XBB variants were found months in advance in Pune's wastewater sewers grabbed headlines. Experts were astounded by how these Covid variants made it to India months before being found elsewhere in the world. Indian scientists said SARS-CoV2 variants could be infecting the population not only days but maybe months before they were detected in genome sequencing samples from the patients.

This research also put India on a map with countries that do groundbreaking research with its sewerage and wastewater and have excellent wastewater surveillance systems.

The technology behind

Fluid Robotics is a revolutionary start-up that develops AI-based wastewater surveillance technologies that integrate with mobile robots and sensors. Their technology helps to monitor the health of wastewater infrastructure, the health of waterways, and the spread of infectious diseases. Water pollution can be reduced by using their hardware platform for mapping subsurface pipeline networks, and by using their software platform for monitoring and analysing data about water infrastructure.

Pathbreaking work with Waste Water Surveillance

Fluid Robotics uses AI to address the growing urban problems of water loss and pollution by predicting what happens underground. Their services enable better management of water and wastewater infrastructure. Its robotics and cloud-based data management platform manages infrastructure assets such as pipelines, pumping stations, and treatment plants. It also uses GIS mapping to capture information and data about the assets.

To reduce pollution in waterways and avoid water



Asim Bhalerao
CEO



Nidhi Jain
Co-Founder

loss, Asim Bhalerao and Nidhi Jain, the co-founders, developed a mobile robot to help better understand, analyse, and predict what happens underground. This tethered robot carries sensors that can measure water flow and move through pipes to map underground networks, inspect water quality, and capture pipe health, saving thousands of hours of manual scavenging.

By eliminating pipe failures and leaks and minimising water pollution by locating impurities at the source, Fluid Robotics' data-driven process helps cities optimise water reuse. Additionally, it may monitor the spread of waterborne diseases through sewage systems.

How it all began

Inspired by his grandfather, S.M. Bhalerao, who wrote the first ever Encyclopedia on the 3,721 Indian Rivers ('Bharatiya Sarita Kosh'), CEO of FluidRobotics, Mr Asim Bhalerao set up Fluid Robotics in 2016 to keep Indian rivers pollution-free.

Asim, a highly skilled researcher and technologist, was employed as a robotics hardware engineer in California's Silicon Valley when he visited his family in Mumbai and learned about a water leak in the 2-kilometre pipeline in his neighbourhood. Because it was unclear where the



leak started, he recognised that the repair would take months. Asim said they frequently dug for weeks to find the pipe, depending on local knowledge.

Most old cities around the world need to have their underground infrastructure mapped. With age-old or non-existent mapped systems, it is almost impossible for urban areas to manage their water infrastructure.

Technology that eases water risks

“We automate pipeline mapping and health evaluation using AI and robots. Our customers have seen significant increase in daily inspection productivity, reduced costs, and improved accuracy when compared to manual inspections implemented by our competitors”, says Nidhi. In ten locations nationwide, Fluid Robotics is implementing its technology after testing it in Mumbai’s Powai Lake and Mithi River. Fluid Robotics works in pollution control along the 22-kilometre Mula-mutha River in Pune.

Fluid Robotics has won accolades at several platforms, winning an award for ‘Best Water Instrumentation and Automation’ company at the 2018 Water Awards in New Delhi and being elected in 2018 as one of India’s

Top 25 Impact Ventures by the 7th Action For India (AFI) Forum. It was also named one of India’s top ten innovative start-ups by Socioconnect, an initiative by the US Consulate General Mumbai and BVIC. The company is a recipient of several prestigious national and international awards such as the Global Edison Awards, Global Urban Water Challenge, B. K. Birla Global Innovation Challenge, 11th Global Sankalp Award, nasscom Emerge 50 Winner.

Asim adds, “Public health has been at the centre of our impact strategy since the start of the pandemic in 2020. Our experience in wastewater infrastructure monitoring through robotics and AI has helped us build an unparalleled public-health surveillance program across multiple cities, impacting a population in excess of 12.5 million. Our technology has made wastewater monitoring safe and scalable while ensuring scientific rigour”.

FluidRobotics continues to work with cities to build infectious disease surveillance programs through robotics and wastewater-based epidemiology (WBE), which now covers SARS-CoV-2, Hep-A, Hep-E, and Influenza, with new programs starting in Antimicrobial Resistance (AMR).

For more information, visit www.fluidrobotics.com



Renkuba: Revolutionizing sustainability with innovative solar technology



Renkuba is a renewable energy startup that has been making waves in the solar industry with its innovative solutions. These solutions comprise methods to reduce the cost of solar energy and make it more affordable. The company was founded in 2017 by a team of experienced professionals from the tech sector who are employing their expertise to take on the challenge of reducing the cost of solar energy production. Balaji Lakshmikanth Bangolae, Dr Lakshmi Santhanam, and Deepika Gopal have made Renkuba's goal to increase the energy yield and density of solar panels while at the same time lowering the payback period and overall costs.

Introducing Renkuba Panels: AI-Designed Solar Glass

The company's flagship product, Renkuba Panels, is a game-changer in the solar industry— providing an innovative solution to increase the yield of photovoltaic solar panels by up to 40%. The makers designed the prismatic structure of the glass to redirect more sunlight onto the cell, particularly in the mornings and evenings when the panel generates less than peak power. This is achieved through their patented technology Motion Free Optical Tracking (MFOT) which has been designed to redirect additional light onto the panel.

Unlike trackers that require moving parts to track the sun, Renkuba Panels have no electromechanical motion and require zero maintenance. Interestingly, the panels also have the dual usage of land for both agriculture and solar energy, allowing for increased efficiency and sustainability.

The AI-designed glass on the Renkuba Panels redirects sunlight onto the solar cell, this means that more energy is produced with fewer panels. Moreover, the Renkuba Panels can be used in agrivoltaic solutions, where 100% of the land can be used for both agriculture and solar



**Balaji
Lakshmikanth
Bangolae**
Founder & CEO



**Dr. Lakshmi
Santhanam**
COO & Co-Founder



Deepika Gopal
Co-Founder



Dr. Janardhan V
Co-Founder

panels thus benefiting farmers.

Smart Optimization: Maximizing Solar Energy Yield

Renkuba Panels are only the tip of the iceberg for this renewable powerhouse startup. Renkuba is also developing a Smart Optimization solution that immediately detects module and system level faults, alerting the customer and allowing for quick action to prevent loss of yield. This Smart Optimisation feature allows panels to be placed in shaded areas on the rooftop that are typically left unused by allowing them



to intelligently disconnect themselves from the string under shaded conditions.

Renkuba's Smart Optimization solution utilises AI and machine learning to detect anomalies and classify the type of fault, which is then sent to the customer for easy diagnosis of problems. The solution is advantageous as it increases the yield of the plant by 10% with a meagre increase in capital cost, reduces O&M costs by 10%, and increases the safety of the plant.

This solution has a positive impact on the environment and the public. By this optimization technique, their system ensures that more energy is produced, thereby lowering the cost of solar energy and making it more affordable for the general public. This reduces reliance on non-renewable energy sources and helps mitigate the effects of climate change.

Renkuba's accolades, real-world applications

Renkuba has been recognised for its innovative solutions and dedication to the solar industry. They have won the National Startup India 2022 award in the Energy sector, the "Top Energy Startup" award from BP 2022, and the ET Ascent Award 2022 for excellence in solar energy leadership. Dr Lakshmi Santhanam, as a TEDx speaker, is slowly developing into a thought leader for their sector.

Renkuba's innovative technology is being applied in real-world scenarios. They are currently partnering with the University of Telangana on a pilot project to demonstrate an increase in yield of up to 40% while maintaining 100% agricultural usage of the land. Currently, crops are being grown in the land underneath the panels.

Future Plans



Renkuba has demonstrated that its innovative technology has a wide range of applications in the renewable energy industry, and the company is already working on expanding its product portfolio to cater to the growing demand for solar energy. Their patented technology, MFOT, and Smart Optimisation solutions are a testament to their dedication and commitment to sustainability and efficiency in solar energy. As the world continues to look for more sustainable ways to power our future, companies like Renkuba will undoubtedly play a vital role in making that future a reality.

For more information, visit www.renkuba.com



Urban Flow: Paving the way for smart, sustainable cities

urbanflow

Urban Flow is a smart city AI company that is dedicated to making cities safer, cleaner, and more efficient. Founded by Nihar and Rajesh Thakkar in January 2022, Urban Flow was started by passionate individuals committed to leveraging technology to address the mobility-related challenges that densely populated Indian cities face. It's clear that there is a lot of potential for technology to make a positive impact in this area.

Urban Flow uses artificial intelligence and other cutting-edge technologies to analyse, design, and evaluate public infrastructure in order to help cities move people safely, cleanly, and efficiently.

Technology Adoption: A New Approach to Urban Mobility

The method of urban mobility used by Urban Flow is based on data-driven insights and a dedication to sustainability. Urban Flow is able to collect and analyse enormous volumes of data on traffic patterns, pedestrian movements, and other important mobility indicators by utilising cutting-edge technology like AI through its smart devices. This gives the business a better grasp of how cities work and helps it spot areas for improvement.

By prioritising sustainable means of transportation like walking, cycling, and public transit, Urban Flow is assisting in enhancing urban mobility. The company is helping to minimise the number of cars on the road, which lowers carbon emissions and improves air quality by developing streets and other public places with various modes of transportation in mind. Cities may lessen their carbon footprint and enhance the general quality of life for their residents by giving priority to sustainable forms of transportation like walking, cycling, and public transportation.

Instead of waiting for congestion and other issues



Nihar Thakkar
Co-Founder



Rajesh Thakkar
Co-Founder

to arise before taking action, using AI to solve city planning enables communities to take a more proactive approach to infrastructure development. Urban Flow enables municipal authorities to make intelligent choices regarding public infrastructure by offering real-time data on traffic patterns, pedestrian movements, and bicycle use. This data-driven strategy can assist cities in maximising the usage of public places, reducing traffic, and enhancing their inhabitants' overall mobility experiences.

Enabling Sustainable Mobility in Indian Cities

Over the past year, Urban Flow has been working with several cities in India to promote sustainable mobility. By providing smart, AI-powered products like live cycle counters, traffic analysis tools, and automated traffic enforcement devices, Urban Flow has helped these cities design their streets and other public spaces in a way that prioritises walking, cycling, and public transit.

One of the key challenges that Urban Flow has helped these cities to address is traffic congestion. Urban Flow has been able to suggest adjustments to road designs and traffic signalling systems that have assisted



in reducing congestion and improving traffic flow by analysing traffic patterns and identifying places where congestion is most severe.

Another area where Urban Flow has made a big impact is in the design of cycling infrastructure. By providing real-time data on cycling patterns and usage, Urban Flow has been able to help cities identify areas where new cycle lanes and other cycling infrastructure are needed. This has led to the construction of new cycle lanes and the installation of bike parking facilities, which have made it easier and more convenient for people to cycle in these cities.

Urban Flow is well-positioned to play a critical role in promoting sustainable mobility choices in cities across India and beyond. Their adoption of cutting-edge technologies such as AI and IoT has enabled them to provide data-driven solutions to mobility-related challenges faced by cities, and their products have already made a significant impact on cities' efforts to promote sustainable modes of transport.

Building Better Cities for Everyone

Urban Flow's approach to urban mobility is both

innovative and effective. By leveraging the power of AI and other advanced technologies, Urban Flow is helping to create smart, sustainable cities that work better for everyone. Whether it's reducing traffic congestion, improving cycling infrastructure, or promoting sustainable modes of transportation, Urban Flow is making a real difference in the lives of people who live and work in cities around the world.

As more and more cities move towards promoting sustainable modes of transport, the demand for Urban Flow's products is likely to increase. Moreover, their focus on leveraging technology to make cities safer, more sustainable, and happier places for everyone is a noble cause that is sure to resonate with city governments and citizens alike.

Urban Flow is a company to watch for the coming years as it continues to make a positive impact on cities' efforts to promote sustainable mobility choices. By leveraging technology and data-driven solutions, it is well on its way to making cities safer, cleaner, and more efficient places for everyone.

For more information, visit www.urbanflow.in





HEALTH AND SANITATION

Adiuvo Diagnostics: Wound management in low-resource settings



Adiuvo Diagnostics is a Chennai-based medical equipment manufacturing company focused on developing innovative solutions for early disease detection and diagnosis. Founded in 2015 by Geethanjali Radhakrishnan and Dr Bala Pesala, Adiuvo has gained recognition for its groundbreaking technology, Illuminate.

A New Era in Wound Management: Illuminate

Illuminate is a rapid, label-free, handheld multispectral fluorescence imaging device designed for acute, chronic, and traumatic wound management. It can differentiate between gram-positive and gram-negative bacteria, which is important because different types of bacteria require different treatments, along with some fungi, non-invasively in less than two minutes. This is a significant improvement compared to the gold standard culture tests which can take up to seven days to provide a definitive result and are cumbersome and error-prone. Illuminate provides a better understanding of infections and strives towards combatting antimicrobial resistance.

The device provides evidence-based debridement and cleaning, better documentation, and increased user satisfaction. Illuminate has the potential to prevent amputations by locating harmful pathogens early on and improving first-line treatment accuracy.

How is Illuminate Better than Traditional Testing Methods?

Illuminate can detect and classify the types of bacteria present in a wound in less than 2 minutes. Additionally, the device is non-invasive, meaning that it does not require a wound sample to be taken, reducing the risk of additional infection and discomfort.



**Geethanjali
Radhakrishnan**
Founder and CEO



**Dr. Bala
Pesala**
CTO

The speed and accuracy of Illuminate make it an effective tool for wound management. By identifying the type of bacteria causing the infection quickly, doctors can prescribe appropriate treatment, reducing the risk of complications and promoting faster healing. The device can also help prevent the overuse of antibiotics, which can lead to antimicrobial resistance.

Accurate Wound Management

By providing a faster and more accurate diagnosis, Illuminate can help healthcare providers make better-informed decisions about wound management, leading to better patient outcomes and improved quality of life.

Illuminate has the potential to improve healthcare outcomes and reduce healthcare costs on a larger scale. This could lead to significant social benefits, such as increased access to quality wound care for underserved communities, improved public health outcomes, and reduced burden on healthcare systems.

The Need for Early Screening and Disease Diagnostics

According to Adiuvo's research, more than 420 million



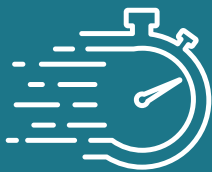
people around the world suffer from acute, chronic, and traumatic wounds, a problem compounded in developing countries like India where there is no established wound management protocol. In India, 2/3rd of lower limb amputations are due to ulcerations on the foot that are not treated, and 7-10% of hospitalised patients develop hospital-acquired skin infections in ICU wards. Annual burn incidences in India are 6-7 million, and secondary infection at the

site of surgery is the third most commonly reported nosocomial infection.

The founders of Adiuvo were introduced to a farmer who had been treated with antibiotics for ten years for a fungal infection. His wound became chronic, and he visited the hospital as a last resort. This experience helped Adiuvo understand the dire need for a rapid, affordable infection screening device.

Moving Forward

Adiuvo, the company behind Illuminate, has laid out an ambitious roadmap for the future. The company plans to validate the Illuminate technology in the European and ASEAN markets while also seeking FDA approval for the US. Additionally, Adiuvo plans to form a global clinical advisory board and expand its sales and marketing channels worldwide.



To provide the best support possible to its customers, Adiuvo will establish a dedicated customer support team. New offices in Singapore, Germany, and the UK will facilitate global expansion efforts. To meet the increasing demand for Illuminate, Adiuvo will expand its manufacturing unit and also grow its R&D team. They also plan to explore multispectral endoscopy and invest in new technologies that can further enhance wound management and combat antimicrobial resistance.

For more information, visit www.adiuvodiagnosics.com



Arficus: Disease detection, diagnosis and prediction, made affordable



The healthcare industry is continually evolving. Various advancing technologies are being leveraged to improve care delivery methods, health records, and payments. Revolutionising the future of the healthcare industry is Arficus, incepted in 2019. Its offering, MEDHINI, is one of the world's first Artificially Intelligent SAMD (Software as Medical Device). The offering has been designed and developed as a complete end-to-end solution for disease prognosis, diagnosis and future prediction. The feature-rich solution was built on a cost-effective, rapid, affordable, and highly accurate SaaS Platform. "MEDHINI, built by our in-house team of professionals, is an Artificially Intelligent tech-based solution and is the World's 1st SAMD thus creating the future of healthcare," adds Sandeep Sinha, Founder and CEO, Arficus.

Having conducted extensive market and industry research, Sandeep tells us of the availability, accessibility, quality, and affordability inconsistencies in the healthcare market. Delving deeper into the challenges encountered by the domain, he goes on to inform us how resources are not efficiently utilised. There is a lack of proper early warning systems (EWS) available for care delivery teams to identify any early signs of decline in the overall health of the patient. So, multiple tests are conducted to diagnose an ailment which then results in higher costs. These tests and treatments are difficult to avail in remote and rural areas as they lack access to quality healthcare services.

Additionally, new unknown diseases are continually emerging, making it even harder to detect and diagnose them. It requires access to advanced technological tools along with preventive healthcare and diagnosing services to save lives. Timely prevention can significantly improve quality of life as an early diagnosis equates early treatment.



Sandeep Sinha
Founder & CEO



Anurag Jain
COO & Co-Founder

From the caregiver's perspective, most healthcare providers work using siloed and disparate systems, making timely and quality healthcare delivery a challenge. Moreover, they struggle with most solutions due to the complex procedures and jargon.

MEDHINI addresses all these challenges and more. This all-in-one solution is present across five countries; INDIA, the UK, Nigeria, Cambodia, and Malaysia.

A comprehensive suite of offerings

The state-of-the-art proprietary solution focuses on the areas of neurology, oncology, nephrology, pulmonology and cardiology, under which the solution caters to 107 diseases.

Some of the diseases the AI-enabled solution is equipped to accurately diagnose are monkeypox, otitis media, melanoma and carcinoma, Covid, mucormycosis, Alzheimer's, breast cancer, tuberculosis, pneumonia, brain stroke, heart attack, leukemia, and so on.

MEDHINI can be utilized by healthcare establishments such as primary healthcare centers, rural areas, diagnostic centers, dental clinics, medical clinics,



maternity homes, hospitals, and direct consumers.

A positive change

MEDHINI performs as an end-to-end SaaS diagnosing and clinical decision support tool with a clinically certified accuracy of 99.31 percent. This significantly reduces the diagnosing turnaround time to just 53 seconds for chronic and complex diseases while also lowering the diagnosing costs to less than just 7 US Dollars. This cost and time saving is an immense social benefit to patients and medical teams alike.

The solution was designed by a team of in-house

experts with the vision to extend affordable diagnosing for all. The organisation's initiative of delivering quality healthcare is extended to geographically dispersed areas as well. With the help of MEDHINI, 47 remote areas received access to top-quality and advanced technology healthcare services. Till date, the solution has touched 17.6 million lives.

In essence, MEDHINI is equipped with an early warning system for health, painless and accurate disease diagnosing, mass screening and health mapping, and geographical health analysis.

Future roadmap

Sandeep Sinha and Anurag Jain, Cofounder and COO of Arficus realised the massive gaps in the healthcare domain that needed to be bridged. "We observed that everyone looked toward the West for high-end medical software and we believe India could be the pivot and game-changer for the global medical fraternity," explains Anurag.



Arficus has made impressive strides in the healthcare domain and aims to continue to bring about positive change. The organisation envisions penetrating the US, Japan, Africa, Turkey, Israel, and Brazil markets in the upcoming year. The team is currently working on creating a highly affordable, quick, accurate, and easily accessible disease diagnosis and health future prediction ecosystem for the less fortunate people.

The team is also working on architecting the world's first-ever Human Health-Climate Change Cross-Prediction platform. Anurag concludes, "We are also building the world's first AI-HCI (Human Computer Interface) non-invasive neural chip, thereby enabling the 'self-diagnosing' capability for every human.

For more information, visit www.arficus.com



CogniAble: Families have optimism thanks to early detection for Autism



A lifelong developmental disorder called autism hampers social communication in 1.5% of India's 25 million babies and 125 million worldwide. 20% of the 25 million infants in India and 125 million worldwide have autism, ADHD, intellectual impairments, or learning problems.

The disability in children is often diagnosed very late, and its post-detection management is also flawed due to a lack of clinicians, infrastructure, and financial resources.

What is CogniAble?

CogniAble is an AI-driven clinical decision-making platform that supports clinicians in the early screening and identification of neurological illnesses like Autism, ADHD, learning difficulties, and a few others.

This award-winning digital platform offers a wide range of Assessments (like VB-MAPP), intervention plans (written & video tutorials on Applied Behavior Analysis, and more), practice management features and others tailored for all caregivers.

The assistive technology used by CogniAble for the early diagnosis and treatment of autism spectrum disorder is machine-learning driven. The platform offers tailored clinical insights for doctors and caregivers about their children, including clinical guidelines, treatment plans, assessment tools, medical resources, and more based on the course of their sickness; this increases care quality.

Manu Kohli, CTO and founder of CogniAble, is working to manage autism by focusing on problems including identification, intervention, high prices, and lack of access. This AI-led clinical decision-making platform was established by researchers and scientists from IIT



Manu Kohli
CTO



Swati Kohli
Clinical Director



Dr. R.K Jain
Pediatric Neurologist
& Co-Founder



**Dr. Himanshu
Khurana**
CEO & Co-Founder

Delhi, paediatricians, psychologists, and Board Certified Behaviour Analysts® (BCBA) from India and USA to provide affordable and high-quality management for families with autism.

The professionals at CogniAble assess the child and develop a customised educational programme that lays out a clear path for improving the child's skills. Frequent training sessions and updates are taken into consideration. Their purpose, which also inspired the creation of CogniAble, is to "Enable Special Needs Lives, the Data Way."

CogniAble has been developed with four primary objectives: providing affordable solutions; usable by all caregivers; remotely accessible; and data-driven.

How it all began

Manu and Swati Kohli, a husband and wife duo, are the co-founders of CogniAble. Swati, a child psychologist and special educator with more than 18 years of experience, has long recognised the need for better services for people with special needs. However, the couple underwent a profound shift following the mid-2000s autism diagnosis of their only kid. They encountered significant difficulties while researching programmes for their child in the USA, India, and Europe.

As a result, they realised the need to combine the best intervention strategies with technology to expand high-quality services for equivalent children worldwide. They assembled a group of co-founders and stakeholders enthusiastic about innovation in this field; thus CogniAble was born.

Mainstreaming detection of neurological conditions

At its core, CogniAble is affordable and offers easy access on mobile and the web, thereby raising clinicians' capacity by 30%. Based on the responses and results of each child's digital questionnaire and video assessments,

one can get machine learning-based screening results and personalised target recommendations automatically generated by CogniAble's system in 10 minutes. That will immensely help families to overcome children's skill deficits, saving time & costs for all caregivers.

CogniAble is committed to digitising intervention programs, goals tracking, and monitoring. Their application has 800 skills, protocols, video training resources, personalised training content, and multiple logins for parents, clinicians, schools, and doctors to track the progress. Currently, under advanced development, CogniAble's computer vision-based video assessment shows promising results and is gathering massive support.

The profound social impact of CogniAble's AI-based solution can be seen in its capacity to empower families through early diagnosis and screening. AI now supports the complete autism ecosystem. Its social impact is substantial, from assisting medical professionals in early management of neurological disorders, including Autism, ADHD, and learning disabilities, to helping the ASD community locate resources enabling better care.

Additionally, based on the evolution of the child's sickness, its machine-learning system offers specialised clinical insights, including high-level clinical suggestions, treatment plans, evaluation tools, and medical resources.

The way forward

CogniAble looks forward to creating physical self-owned or franchise-based intervention centres and vocational training and residential care ecosystems for special needs individuals and families with special needs powered with machine-learning technology.

In conjunction with renowned medical and technical institutions, including AIIMS Jodhpur, MAMC, NIMHANS, and IIT Delhi, clinical studies for their AI systems have been completed with 1,250 subjects across India.

The research, according to CogniAble, produces very encouraging findings. "CogniAble seeks to solve several problems for people with ASD & special needs," says Mr Manu Kohli, CTO and Founder.



For more information, visit www.cogniable.tech



Datakalp: Enabling better health and safety compliance



Datakalp is a leading, innovation-driven tech and AI company that specialises in building human-centric products to enhance health and safety compliance. One of the biggest challenges facing industries such as healthcare, food processing, and hospitality is the low compliance rate for hand hygiene, a standard, critical protocol for preventing the spread of infections. In response to this challenge and to reduce the number of diseases and infections spreading due to poor hand hygiene, Datakalp has developed an AI-powered device called HALgenie. HALgenie provides immediate, contextual, step-level feedback to guide and reinforce hand hygiene habits, showing promising results in improving compliance rates and reducing healthcare-associated infections (HAIs) in hospitals and other healthcare settings.

The Need for HALgenie

Proper hand hygiene is essential to prevent the spread of infections, especially in healthcare settings. However, studies have shown that compliance rates among healthcare workers and the general public are alarmingly low.

Traditional methods of training and auditing compliance have been ineffective due to several limitations. These include the high cognitive load on workers, the lack of reinforcement after training, and the resource-intensive nature of manual audits. HALgenie offers a solution that addresses these challenges and provides real-time, targeted feedback to users, improving compliance rates and reducing the risk of HAIs.

The AI-Powered Solution to Low Hand Hygiene Compliance

Datakalp's HALgenie is a patented device that uses AI technology to provide real-time feedback to users on



Dr. Kalpit Desai
Founder & CEO



Jayesh Jain
Advisor

their hand hygiene compliance. This device is designed to be a fun and engaging tool that guides users through the proper steps of hand-washing, while also providing feedback on areas for improvement. The immediate, contextual feedback offered by HALgenie helps build deeper habits, while also enabling targeted interventions for infection control teams.

The device has been installed across various industries, including healthcare, food processing, and hospitality, with impressive results. Within just six weeks of installation, HALgenie has increased hand hygiene compliance rates by between 25% to 150%. The device has already received repeat customers, including JHPIEGO, a renowned NGO in healthcare, which has chosen HALgenie to improve awareness of hand hygiene to government hospitals.

HALgenie's innovative design and AI technology have revolutionized the way industries approach compliance training and enforcement. The device's feedback mechanism ensures that training is reinforced, thereby reducing the risk of non-compliance. Additionally, the targeted interventions enabled by HALgenie can significantly improve compliance rates in areas that need it most, making it a highly effective solution for enhancing health and safety training and compliance.

How HALgenie Works

HALgenie is an AI-powered device that uses computer vision and machine learning algorithms to analyse hand-hygiene behaviour. The device is designed to be mounted on a wall or placed on a table, making it easily accessible to users. It uses a camera to capture users' hand movements and provides immediate, contextual feedback on areas for improvement. The feedback is tailored to each user, based on their specific hand-hygiene behaviour, and encourages users to adopt best practices.

By increasing compliance with hand hygiene protocols, HALgenie can help reduce the incidence of HAIs and save lives. In addition, the device's AI technology allows infection control teams to identify areas where compliance is low and target interventions accordingly, further improving the effectiveness of existing infection control measures.

HALgenie makes a significant impact on public health by reducing the incidence of healthcare-associated infections (HAIs) and promoting proper hand hygiene practices.

Palan Platform: The Future of Health and Safety Compliance

Datakalp's success with HALgenie has paved the way for the development of the Palan platform. Palan is a platform that uses the core technological building blocks of HALgenie to address multiple use cases in various industries. The platform is designed to be a reusable technological solution for addressing health and safety training and compliance challenges, such as physiotherapy assistance and verification, PPE wearing compliance, plant safety compliance, part assembly protocol verification, and hospitality safety and housekeeping process verification.

Datakalp's Palan platform and HALgenie represent a significant step forward in the field of health and safety compliance. By leveraging AI-powered technology, Datakalp has developed a solution that offers immediate, contextual feedback to guide and reinforce compliance with best practice protocols. Datakalp's vision of solving the problem of health and safety training and compliance worldwide is a noble one, and its innovative solutions are making a tangible impact on health and safety outcomes in industries around the globe.



For more information, visit www.datakalp.com



Sparcolife: Gifting happy minds for women's well- being



Women, like men, bring a lot to the workplace. However, they also have unique requirements that must be met, particularly when dealing with menstruation, reproductive health, and other difficulties connected to menopause and beyond. These problems can all impact regeneration health, prosperity, and life goals, highlighting the need to concentrate on tailored prosperity and care for women in the workplace.

Having experienced the struggles firsthand like every other woman, Pooja Hemmige Shwethadri, Founder Director of Sparcolife Digital Healthcare Technology Private Limited, decided to change her struggles to a mission that would benefit women like her.

"Feeling lost and alone in my struggle with hormonal imbalance and menstrual irregularity, I thought I was the only one going through it. But when I learned that 3 in 5 women faced the same challenges, it ignited a fire within me to make a difference. Now, I am on a mission to improve women's wellbeing everywhere and ensure that no one has to suffer in silence." says, Pooja.

She embarked on a journey of dedicated research and discovered the ESHRE psychosocial guidelines, which transformed her life. Soon, she founded Sparcolife in order to provide tailored and evidence-based therapy for women's prosperity, driven by her compassion and empathy for others.

'Vyli' is Sparcolife's flagship digital therapeutic platform designed to identify and address behavioural and mental health issues while promoting the adoption of psychosocial care. Almost 60% of working women today are going through either one of these reproductive health conditions like menstrual irregularity, hormonal imbalance, PCOS/PCOD, thyroid or fertility issues. By offering mental and behavioural health care, Vyli is dedicated to assisting women experiencing difficulties with their reproductive health or fertility.



**Pooja Hemmige
Shwethadri**

Founder & Director



Gopinath V

Co-Founder & CTO



Ashutosh Dwivedi

COO & Founding Member

Vyli, a smart gadget

The first of its type on the market, Sparcolife's cutting-edge, digital psychosocial treatment approaches include Vyli/20. This device, built using AI, Internet of Things (IoT), and Extended Reality (XR), helps in diagnosing and treating mental health issues. It integrates multimodal sensors to determine the underlying multidimensional dimensions of a person's mental health. The tool can identify neurotic symptoms and give users some first support to enhance their functioning.

Vyli's psychometric test is administered through a conversational format powered by large language models. The AI calculates the user's psychometric

score as they engage in conversation. Multiple ML-based tools capture emotions during the test, including facial emotion recognition, speech emotion recognition, and thermal emotion recognition. Combining multiple modalities and biomimicry creates a comprehensive view of the user's condition.

The AI also enables a personalised and engaging user experience, resulting in more accurate and reliable data. The use of ML-based tools helps capture emotional responses in real-time, providing a more holistic view of the user's emotional state.

By combining these signals, Vyli obtains a more

comprehensive understanding of the user's emotional state, which can be used to provide more personalised and effective interventions. Their holistic care model is designed to cover psychological, nutritional and reproductive health thereby helping women achieve complete wellbeing.

With Vyli, women can discreetly access a comprehensive, integrated, and holistic approach to their health; including education, awareness, and support that overall benefits families and makes their surroundings mentally healthier. Providing women with such support at their fingertips has a deep positive colossal social impact that will intensify with days to come.

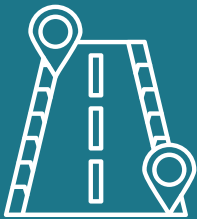
The way forward

Sparcolife Digital is committed to revolutionising the field of reproductive health care and mental health care through cutting-edge technology.

Pooja's visionary leadership is driving Sparcolife to become a pioneer in developing translational research and evidence-based digital therapeutics platforms for women's well-being. With a background in management and 12 years of experience in the semiconductor electronics industry, she founded Sparcolife to create reliable and accessible solutions and address the stigma around women's health. Their multidisciplinary team comprising clinicians, techies, caregivers, therapists, is transforming the landscape of women's well-being. Pooja's commitment to improving women's lives and her passion for creating a positive impact in the world inspire and drive Sparcolife's mission forward.

They plan to expand their platform with personalised assessments and tools, leveraging AI to create a more engaging and practical user experience and empower individuals to control their mental health by providing accessible and reliable support.

For the future of Vyli/20, the company aims to develop a miniature version of the device that can be worn discreetly and integrated into a mobile application. They also plan to expand their services to include mental health support for men and care in reproductive health, making a meaningful impact on the lives of women and families everywhere.



For more information, visit www.vyli.health





SKILL DEVELOPMENT & LIVELIHOODS

Cognosia: Aiding fundamental cognitive process development for schools



With the increasing focus on the development of young minds, concerns have been raised about the challenges faced by children in acquiring cognitive skills. To address this issue, Cognosia stepped up to the challenge by introducing cost-effective solutions with cutting-edge AI technology. What started by focusing on assessing and developing core cognitive abilities in children turned into a flagship solution called wread.ai. This is not just India's first fully interactive reading-writing system powered through cutting-edge AI, but also one that supports speech recognition.

After extensive research starting in the pre-pandemic days, Cognosia tied up with 30+ schools across India. As a part of the engagement held in these schools, data on children's cognitive abilities were collected that included reasoning, working memory, among others; this was parallel to the student's curriculum. Based on early findings, it was discovered that most students had significant reading and spelling issues, which led to underperformance at school. This data was less than the relative cognitive potential of the students which gave Cognosia the option to redeem themselves and help in identifying their reading and other issues through wread.ai.

During the pandemic, when schools were closed, Cognosia developed a system to help students with reading and spelling issues through one-on-one Zoom sessions. They helped hundreds of students overcome these issues with a 100% success rate, which led to the development of a scalable technology-driven solution. Beta tested in early 2022 and launched on Playstore in June 2022, wread.ai has since become the go-to solution for schools and parents looking to improve their children's reading and writing abilities.

Purpose-driven AI Technology

The reading and writing problem among school-going



**Sridhar
Velamakanni**
Co-Founder & CEO



Mohan KSR
Co-Founder & CTO

children is a widespread issue that affects half of all students globally. Effective interventions at a young age can prevent this problem, but if left unaddressed, it can have far-reaching impacts on individuals, society, and the nation. Cognosia has set out to address this challenge by providing a scalable, technology-led solution through wread.ai.

The main goal behind wread.ai is to aid children in developing age-appropriate reading and writing skills in a manner that is effective and engaging. The company aims to positively impact society and the global market by utilizing technology to provide accessible solutions for children of all backgrounds. By developing fundamental reading and writing skills, Cognosia not only opens the door to personal growth but also professional growth. Through wread.ai, AI technology could potentially impact the lives of millions of children globally by improving their literacy skills and future prospects.

Attribute-rich platform

Wread ai is one of the most interactive applications as it not only uses advanced speech recognition to understand and respond to students but also gives them unique real-time feedback. As part of the learning



process, a few tips are also generated just like in a live session between the teacher and the student.

Students start off at a level that is based on their current reading and writing level determined by an in-app test. The system is completely adaptive, and updated material is presented only after a student masters the material covered. In order to understand the nature of students' mistakes, deep learning algorithms are used to curate subsequent content.

The application is a structured, multi-sensory, and complete system for learning reading and writing. Initially, it starts off with basic consonant and vowel phonemes and 2-3 letter words. But by the end of the program, students can read full passages, and longer words effortlessly. This conserves their mental energy for the more challenging task of comprehension.

Their app offers customizable avatars to enhance children's experiences. Through this application, children not only learn reward points through completing sessions and assignments but also win real and virtual

gifts through cognitive skill-based games and a Spin the Wheel feature.

Their Unique Proposition

Cognosia offers students both tangible as well as intangible benefits. Using wread.ai, school-going children can overcome reading and writing difficulties with a technology-driven solution. It is the only system of its kind that offers a highly interactive learning environment that utilizes advanced speech recognition technology. This allows students to receive real-time feedback on their audio responses and context-based tips, which helps to stimulate the experience of being in an instructor-led environment.

Wread.ai's interactive, personalized, and gamified approach to learning makes it a highly effective solution for reading and writing problems among school-going children. Its use of advanced speech recognition technology and adaptability to individual learning needs makes it a highly innovative and valuable tool for educators and parents alike.

For more information, visit www.cognosia.com



Indika AI: Facilitating data- driven innovation using AI



Organisations are increasingly turning toward harnessing the power of AI to improve business profitability, productivity, and results. However, the challenge to successfully implement AI depends on the availability, usability, and quality of the data. Data is often obtained from disparate systems and is of poor quality or inconsistent, thus unable to create and deliver value using AI. Another key challenge organisations encounter when adopting AI is the lack of a skilled and technically adept workforce equipped with the necessary training and experience. Coming to the fore is Indika AI, headquartered in Mumbai, with its novel and robust data solutions.

The company accelerates data-driven innovation and AI development by providing end-to-end data solutions. "Our data-centric AI approach enables any organisation, from small AI teams to legacy organisations, to develop impactful AI solutions. We combine AI technologies with skilled human insights to ensure every AI solution is built on a foundation of high-quality ground truth data," elucidates Hardik Dave, Co-founder & CEO of Indika AI. A chartered accountant turned AI entrepreneur, Hardik has previously worked with Ernst & Young (EY) and Baker Tilly International in the areas of digital transformation and technology adoption in the finance and law sectors. He and his team of experts extend the best domain expertise in highly-regulated industries such as FinTech, RegTech, Legal, Medical, and Conversational AI among others.

Providing a bouquet of services

Indika AI offers a myriad of services such as data strategy, data digitisation, data set collection, data transcription, model training, testing and evaluation, and data anonymisation and synthetic data generation.

The team at Indika AI devise a training and testing data



CA Hardik Dave
Co-Founder & CEO



Dr. Anshul Pandey
Co-Founder & CTO

strategy for data digitisation, collection, anonymisation and annotation strategy and model testing. The company also caters to the digitisation of organisational data sitting in silos for AI adoption and monetisation. In addition to this, Indika AI is also involved in real-world data collection, data extraction and transcribing speech datasets across all major International and Indian regional languages for AI Training. All types of data amalgamated for AI training such as text, images, audio, videos, LiDAR, Sensor Fusion and so on are labelled.

The team also conducts AI model training, testing, and evaluation pre and post-deployment for increased performance and security compliance. "Being an ISO 9001 and 27001 certified company with strict legal & tech controls besides the suitable culture, we take care of data security requirements as a priority," adds Dr. Anshul Pandey, a tenured data scientist and CTO of Indika AI. Furthermore, anonymisation and synthesis of data are carried out for regulatory compliance, increased collaboration, and better data insights.

A positive growth trajectory

Indika AI is gaining quite a strong foothold in this



domain. What started as catering to the training data requirements for Accern, a leading no-code fintech AI company based in the US, quickly grew as a preferred data partner for AI teams working on use cases requiring specialised domain expertise.

Incorporated in 2021, Indika AI clocked revenues of Rs. 53 lakhs in its first financial year. The company continued to experience positive growth and recorded a growth of Rs. 1.4 crore in its second year. "The company is bootstrapped with positive cash flows and is now investing heavily in building state-of-the-art technology capabilities to accelerate digitisation and AI adoption across government and defense sectors," reveals Dr. Anshul.

In the short time since its inception, Indika AI has been awarded and featured for the revolutionary change it has brought about and continues to bring in this sector. The company was awarded the 'Top AI Company of the Year-2022' title by the All India Council for Robotics & Automation (AICRA). The company was also an

inception program awardee for NVIDIA. In addition to this, Indika AI was featured in "Top 30 Startups to Watch" by Inc42 and on IndiaAI & YourStory as well. Committed to positively impacting this domain, Indika AI is also a highly regarded member of the Telangana AI Mission's Rev Up acceleration program and has been recognized as the 'Top Emerging Computer Vision Startup - 2022' by CIO Review India.

In terms of social impact, Indika AI teams are spread across multiple locations in India and offer significant employment and growth opportunities to individuals in these locations. The company has partnered with non-profit organizations to upskill and hire labelers.

Continually striving to stay ahead of the curve, Indika AI envisions accelerating data-driven innovation and making human life easier with AI adoption & tech advancement. The company is also working towards making India the global AI capital.

For more information, visit www.indikaai.com



Empowering Youth for Sales Jobs with Interview Cracker

In India, access to job opportunities is a major challenge for many youths, particularly those in customer-facing roles like sales. Finding, screening, and interviewing candidates is a tedious task for recruiters, especially when communication and positive behavioural skills are essential for the job. In response to this challenge, Anupma Singh, Sudip Bhattacharya, and Shalini Kumar founded InterviewCracker with the goal of bringing equitable access to sales jobs for youth across India. With the help of their patent-pending vernacular speech AI technology, candidates can now showcase their communication skills and positive behavioural aspects through audio and video recordings, making it easier for recruiters to identify the best candidates for the job.

Novel Technology

InterviewCracker, a high-volume sales hiring platform, has revolutionised the recruitment process by introducing vernacular speech AI technology. This cutting-edge technology has transformed the way sales job roles are filled in India, where lakhs of youths lack

In India, access to job opportunities is a major challenge for many youths, particularly those in customer-facing roles like sales. Finding, screening, and interviewing candidates is a tedious task for recruiters, especially when communication and positive behavioural skills are essential for the job. In response to this challenge, Anupma Singh, Sudip Bhattacharya, and Shalini Kumar founded InterviewCracker with the goal of bringing equitable access to sales jobs for youth across India. With the help of their patent-pending vernacular speech AI technology, candidates can now showcase their communication skills and positive behavioural aspects through audio and video recordings, making it easier for recruiters to identify the best candidates for the job.



Anupma Singh
Co-Founder & CEO



Sudip Bhattacharya
Co-Founder & CTO



Shalini Kumar
Co-Founder & CPO

Novel Technology

InterviewCracker, a high-volume sales hiring platform, has revolutionised the recruitment process by introducing vernacular speech AI technology. This cutting-edge technology has transformed the way sales job roles are filled in India, where lakhs of youths lack access to job opportunities despite numerous jobs being available. Sales job roles demand proficiency in communication and positive behavioural aspects from candidates, making it challenging for recruiters to find suitable candidates for interviews and roles.

The platform analyses audio and video recordings of

candidates using vernacular speech AI technology, which identifies the proficiency levels of candidates automatically, irrespective of the language spoken. This unique technology has created 4D profiles for candidates, which include speech, video, and AI-driven analysis to generate recommendations for hiring teams to start interviewing.

This technology has helped recruiters save more than 70% of their time and money, reducing the tedious and time-consuming process of finding and screening candidates. Candidates, on the other hand, get a clear picture of their speaking and presenting proficiency, enabling them to work on their weaknesses and improve their chances of landing a job.

4D Profiles

The four-dimensional (4D) profiles created for candidates use equal number of core components, and this has transformed the way recruiters find suitable candidates for sales job roles.

The speech component of the profile evaluates the candidate's communication skills and identifies their proficiency level, irrespective of the language spoken. This helps recruiters evaluate candidates from diverse linguistic backgrounds and provides them with an equal opportunity to showcase their communication skills.

The video component is a behavioural assessment tool that evaluates the candidate's behaviour during the interview. The AI-driven video analysis tool analyses the candidate's facial expressions, body language, and other non-verbal cues to determine their behavioural traits.

A resume is an essential tool for recruiters to evaluate the candidate's qualifications and experience. This segment helps recruiters screen candidates based on their qualifications, experience, and other relevant factors.

AI-driven analysis is the most crucial element of the 4D profile. It evaluates the candidates' performance during the interview and provides feedback to recruiters. It uses machine learning algorithms to evaluate the candidate's communication skills, behavioural aspects, and other relevant factors.

Benefits and Use Cases

The vernacular speech AI technology used by InterviewCracker has transformed the recruitment process for high-volume sales hiring. It has several benefits for recruiters and candidates, including saving time and money, providing equal opportunities for candidates from diverse linguistic backgrounds, and providing recruiters with a tool to evaluate the candidates' qualifications, experience, and behaviour during the interview.

InterviewCracker's technology has been creating waves across the industry. More than 400 enterprises and growing startups have benefitted to close their sales and customer support positions across India. Over 2 lakh aspiring sales professionals have accessed their platform and been offered jobs in their respective regions. This technology has empowered youth in regional areas by providing them with access to job opportunities and the tools to improve their communication skills and behaviour.

Future Objectives

With their patent-pending vernacular speech AI technology, InterviewCracker has disrupted the traditional hiring process and has created an inclusive platform that benefits both job seekers and recruiters. The platform's use of AI-driven analysis to identify the best candidates for sales jobs has significantly reduced the time and cost involved in the hiring process, while also providing a platform for job seekers to showcase their skills and abilities. The company's roadmap includes the development of a more advanced suite on their platform to create more value for enterprises and users, including skill-gap analysis and recommended micro-certifications in sales to empower regional youth further.



For more information, visit www.interviewcracker.com



Learnemp: Empowering people through education and technology



Learn and Empower Private Limited
Accessibility Equity Education

Online learning has flared in popularity, with the world moving to a more digitised ecosystem and people turning to the internet to expand their knowledge and skills. But while online learning offers many benefits, it also comes with its unique set of challenges.

For students with a hearing impairment or difficulty with hearing, finding the right learning solutions can be a challenge. Online or traditional classroom environments may not fully cater to their needs, making it difficult for them to engage with the material and perform to the best of their abilities.

Learn and Empower, a cutting-edge edtech company, is addressing these challenges head-on with the help of artificial intelligence and natural language processing.

Introducing Learnemp

Learn and Empower was founded in 2020 with the goal of making online learning more effective and accessible for people with hearing difficulties and impairments. The company offers a wide range of courses, all taught by experienced professionals in their respective industries. What sets Learnemp apart is its use of AI and natural language processing to enhance the learning experience for its users.

The SaaS-based platform specialises in providing learning solutions for deaf students. Their flagship product, Resonate Learning, is a digital, game and augmented reality-based learning platform designed specifically for this demographic. It is interactive, intuitive, and engaging, making learning a more enjoyable experience for students.

The Power of AI and NLP

Learnemp's AI and natural language processing technology enables it to provide personalised, adaptive learning experiences for each user. When a user logs



Prabodh Mahajan
Co-Founder



Amanpreet Chopra
Co-Founder

in to Learnemp, the platform analyses their learning history, preferences, and goals to create a customised learning path tailored to their individual needs. This means that users can learn at their own pace, with content that is specifically designed to meet their unique learning styles.

But the benefits of AI and NLP don't stop there. Learnemp's technology also allows for real-time feedback and assessment, making it easier for users to track their progress and identify areas of improvement. The platform can even analyse the way users interact with course materials, providing insights into their comprehension and engagement levels.

Learnemp in Action

Apart from Resonate's comprehensive, feature-rich platform and its game-based learning approach, a unique feature that sets it apart from other learning platforms is its offline learning capability. Students can continue learning, no matter where they are, without the need for an internet connection. This feature is particularly useful in areas where internet connectivity is limited or unavailable.

Resonate stands out because of its real-time content to Indian Sign Language (ISL) conversion support. The platform can convert any content into ISL in real-time, allowing students to have a better understanding of the materials presented. This feature can also help reduce language barriers, as it supports multiple languages, including English, Hindi, Marathi, Kannada, Gujarati, Telugu, Assamese, and Bengali.

The generative AI-based content visualisation acts as an aid during the learning journey with ISL. This hybrid approach enhances the learning experience by providing interactive and engaging content that is tailored to the student's level of understanding. The content visualisation feature can help students grasp complex concepts more easily, making learning a fun and enjoyable experience.

Enabling Inclusive Learning

Resonate's generative AI-based content visualisation feature enhances the learning experience by providing interactive and engaging content that is tailored to the student's level of understanding. Moreover, the game-based learning approach, with the incorporation of elements of fun and competition, incentivises students to learn and progress, making education more accessible and enjoyable for deaf students.

Importantly, Learnemp is empowering people with hearing difficulties and impairments, providing them with the opportunity to gain new skills and knowledge from anywhere, at any time, and contributing to the social good.

Future of Online Learning



Learnemp's use of AI and language processing represents the tomorrow of online learning. By harnessing the power of these cutting-edge technologies, the company is able to provide a truly personalised and adaptive learning experience for its users. This not only makes learning more effective but also more engaging and enjoyable.

As online learning continues to develop, we can expect to see more companies like Learnemp using AI and NLP to enhance the learning experience. For learners with hearing disabilities, this means a world of opportunity, with the ability to gain new skills and knowledge from anywhere, at any time.

For more information, visit www.learnemp.com



Smartail: Leveraging AI in Education with Smartail



Smartail is an ed-tech startup founded in 2019 in India by a passionate set of industry experts in software development, along with the support of eminent advisors from academia. The objective was to transform and deliver decision science to educators in India and globally, using artificial intelligence (AI).

During this process, Smartail was faced with several hurdles during the ideation stage—the awareness of AI in education, the adoption of new technology by educators, and the willingness to accept a commercial product. Despite these challenges, the team persisted and their AI product, DeepGrade, is at the early adoption and revenue-generating stage, with 40+ educational institutions in India, and growing sizeably in the foreseeable future.

AI-Powered Impact on Education

DeepGrade is a powerful AI platform that enables educational institutions to streamline learning, assessment, grading, and feedback. It offers a pinpointed analysis of both descriptive and objective answers, providing insights into students' academic performance. With NLP-powered context grading methodology, DeepGrade evaluates each content for its intent, meaning, and similarity to provide near-human accuracy in content grading. DeepGrade enables educators to continuously improve their teaching methodologies with data-driven insights. It also allows for the efficient creation of question repositories and near-human grading of student content.

With AI, educators can personalise learning experiences, identify areas of improvement, and design targeted interventions. AI also enables educators to automate routine tasks and assess student progress, which frees up time for more personalised attention to students. This can lead to



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Co-Founder & Chief
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Kannan Ganesan
Chief Technology Officer

a better quality of education as educators can spend more time engaging with students and providing feedback, which improves student learning outcomes.

Addressing Pain Points in Education with AI

DeepGrade is an innovative solution that addresses some of the most significant pain points of educators and learners. According to Smartail's extensive research, one of the major challenges faced by teachers is that they are overworked, resulting in less than 50% of their time spent in direct interaction with students.

Smartail's DeepGrade platform can grade student responses, saving teachers a significant amount of time that can be spent on direct interaction with their students. By addressing this, Smartail improves the quality of education and ensures that teachers can provide individual attention to their students, leading to a better learning experience for all.

Learning loss refers to the loss of knowledge, skills, or abilities that students experience during extended periods of absence from school or disruptions in their regular learning routines. Measuring and addressing learning loss is a significant challenge for educators across all tiers of the education system. It refers to the difficulty of evaluating student progress and identifying areas where they may be falling behind in their learning.

By leveraging the power of AI and deep learning algorithms, the DeepGrade platform can quickly and accurately grade handwritten descriptive answers of students and provide in-depth data insights to educators. DeepGrade provides an in-classroom solution that is cost-effective for all tiers, allowing educators to measure and address learning loss effectively.

Without data-driven insights, it is difficult for educators to identify areas of weakness and develop plans for remedial action. This is particularly acute in large

educational institutions, where it can be challenging to collect and analyse data across multiple departments and classrooms. DeepGrade provides in-depth data analysis and insight that can help educators better understand the strengths and weaknesses of their teaching methods and develop strategies to improve the quality of education they provide. The platform finds patterns and provides insights that educators and management can use to make impactful decisions. DeepGrade enables adaptive teaching-learning practices, enhances educator productivity, and allows for data-driven continuous improvement.

The larger picture

Smartail's DeepGrade is an innovative solution to the drawbacks faced by educators and learners. The AI solution grades handwritten descriptive answers of students based on their meaning, context, and intent. The grading is flexible, meaning students and teachers can benefit from the technology, making it an efficient solution for all tiers of education.

There is a continuous effort needed towards upskilling the AI talent pool by creating awareness, training educators, conducting workshops, on-the-job training, defining new roles and job opportunities with respect to labelling, and more. The DeepGrade platform's benefits are not limited to educators alone; they extend to society in general.

For more information, visit www.smartail.ai





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