

**NASSCOM®**

# Center of Excellence-IoT & AI

A MeitY Initiative with Govt. of Karnataka, Haryana, Gujarat & AP

## REPORT FOR JUNE-SEPT'19

# COE-IOT & AI



Ministry of Electronics  
& Information Technology  
Government of India



सत्यमेव जयते  
Government of Gujarat



## “Very Happy to see the Caliber of Innovation among Startups today”

*Union Minister Ravi Shankar Prasad paid a visit to the NASSCOM Center of Excellence IoT-AI, where he spoke about the rise of India's trillion-dollar product market, the need for India to thrive as an innovation hub and why technology is the central piece of transformation across sectors & industries today.*



NASSCOM Center of Excellence IoT& AI Bengaluru hosted Ravi Shankar Prasad, Union Minister for Law & Justice, Communications, Electronics & IT, Ajay Sawhney, Secretary of Ministry of Electronics & Information Technology (MeitY), Dr. E.V Ramana Reddy, IAS, Additional Chief Secretary to Govt. Department of Information Technology, Biotechnology and Science & Technology, Government of Karnataka and several representatives from NIC, STPI and other ecosystem organisations, where they got to witness firsthand the true impact of deeptech and innovation being nurtured.

Ms. Debjani Ghosh, President of NASSCOM along with other senior leaders accompanied the delegation across the facility and introduced them to various companies and startups on showcase with their products and

solutions in agritech, healthcare, cybersecurity, smart cities, healthcare and fintech.

The event notably marked the launch of the Center of Excellence's Digital Wellness Experience Zone – a unique platform to showcase the latest digital health solutions. Companies that were part of the showcase included Artelus AI, Niramai, Radical Health and Tricog Health.



## 3rd CoE launched by Union Minister Ravi Shankar Prasad & Gujarat ministers in Gandhinagar

The 3rd Center of Excellence for IoT & AI was launched in Gandhinagar on 11th September 2019 by Union Minister for Law & Justice, Electronics, IT & Communications Ravi Shankar Prasad, along with Home Minister Pradipsinh Jadeja, Hasmukh Patel, MP of Ahmedabad East and Dr. Kirit Premjibhai Solanki, MP of Ahmedabad West.

Several companies including Alluvium, Amnex, Wobot AI, Torchit and Sunbots showcased their solutions to the Minister, who also provided them valuable insights on specific needs of the government, and how their technology solutions could be used for the benefit of the government.

Following that, he spent time interacting with some of Gujarat's leading industry leaders, industry associations, startups, research & academia, where the minister outlined why technology is highly necessary to ensure the reach, ease and availability of services in healthcare, education, agriculture and e-governance. He also stressed on industry leaders in Gujarat to track innovative startup solutions and pursue collaborative opportunities with them – this he believes is the only way the country's profile as a technology innovation hub can grow significantly



## Gujarat raring to embrace technology solutions to become India's leader in Industry 4.0

The 2nd Edition Industry 4.0 Summit was conducted by NASSCOM CoE IOT AI Gandhinagar and Federation of Indian Chambers of Commerce & Industry. Titled “Improving Competitiveness in Manufacturing Using AI &IoT”, the half-day summit witnessed participation from startups, innovators, leading manufacturing companies from pharma, chemical, oil & gas, textile and defence. Eminent leaders from the business sphere graced the event as keynote speakers including Sameer Garde, President – India & SAARC, Cisco; Pankaj Patel, Chairman, Zydus Pharma & Prasanna Iyengar, Product Head – Bosch. Sameer Garde spoke about the rapid advent of technologies changing the manufacturing landscape, and consequently workforce demands today, while Prasanna Iyengar took the opportunity to discuss the growth of Bosch and its product suite in line with the emergence of newer technology capabilities that include AI &IoT among others.

Pankaj Patel, chairman of Zydus and one of Gujarat’s most prolific businessmen too had the audience enthralled with his takeaways on how businesses were changing dynamically and no entity can afford to fall back on technology adoption. He spoke of Gujarat as a vibrant and fast-growing manufacturing hub, but the next wave of growth could happen only if industry leaders understood technologies like AI, sought solution providers and charted ways to incorporate these technologies for higher process efficiency, enhanced R&D and customer service.

Several major industries and companies from Ahmedabad were also present and shared their insights on disruption in manufacturing today. Bhupendra Bhate, Chief Innovation Officer at L&T Technology Services Ltd. spoke about the relevance of an event like Industry 4.0, backed by industry organisations like NASSCOM and FICCI, which would help the local industry see the value in disruptive technologies to enhance efficiency, decrease costs and more importantly, incorporate & incentivise innovation potential in Gujarat.

*At the recently held Industry 4.0 Summit in Ahmedabad, industry leaders like Sameer Garde of CISCO & Pankaj Patel of Zydus elaborated on the high impact of advanced technologies on Gujarat’s booming manufacturing sector, and urged the industry to find new avenues of collaboration.*



**Sameer Garde**  
President - Cisco



**Pankaj Patel**  
Chairman - Zydus Cadila Ltd.



## AI won't replace doctors, doctors who don't use AI will get replaced

The sixth edition of the Life Sciences & Healthcare Innovation Forum (LHIF) was recently held on 19th September, 2019 at The Leela Palace, Bengaluru, which saw some of the most prolific leaders and decision makers in healthcare, medicine and technology converge and discuss the way ahead for India's healthcare industry.

With Redefining the Healthcare Landscape - The Digital Shift as its central theme, the event began with powerful keynotes delivered by Dr. Devi Shetty, Chairman & Executive Director, Narayana Health; Nalinikanth Gollagunta, President & CEO, GE Healthcare South Asia & MD, Wipro GE Healthcare; Gagan Singh, Managing Director, AstraZeneca Pharma India Ltd; and Niclas Jacobson, Deputy Director General & Head of Division for EU & International Affairs, Ministry of Health & Social Affairs, Govt. of Sweden.

Engaging Panel Discussions touched upon vital topics like Making A Societal Impact Through Health-Tech, Impact of Med-Tech Innovation on Universal Healthcare and Digital Doctor - The Future Perspective. In addition, six innovative startups were recognized for their path-breaking solutions with the #LHIF Innovation Award.

The event also hosted select industry leaders for a close-door roundtable discussion on The Digital Healthcare Initiative in India.



**DR DEVI PRASAD SHETTY**  
Chairman & Founder  
Narayana Health

“LHIF is a great opportunity for entrepreneurs in digital healthcare, for providers like us to present our pain-points & requirements, and industry to provide their cooperation so they can come up with world-class products. It's a great opportunity for India to get into digital health and look at the world as a market.”



## Kidwai Memorial Hospital evaluates cutting edge solutions in oncology

*Five startups pitched their solutions to doctors at Kidwai*

NASSCOM CoE with the help of Government Health and Family Welfare Department, Government of Karnataka, facilitated an interactive startup pitching session for Kidwai Memorial Institute of Oncology (KCI). The startups interacted with Dr. C Ramachandra, Director, Dr. Prabha Seshachar, RMO, Dr. G. Ramesh, Professor and HOD of Biochemistry, Dr. T. Avinash, Surgeon & Dr. Amruth Kadam, DME.

Presentations were made by startups on Breast, Cervical, Lung cancer screening, Companion Diagnostics for Prognosis & Precision Medicine, Tele-Radiology, -Pathology workflow platforms and Analytics tools for Remote cancer care and Wellness and Nutrition Therapy for cancer.

Additional Requirements gathered on Blockchain technology for Blood bank management,

Adjuvant therapy based on Radiation treatment and Genomic testing, Decision support platform for tumour board on prognosis, drug response and precision treatment and Companion diagnostics based on Histological profiling, reconstruction, Intra-tumoral heterogeneity. SOPs were prepared to facilitate the engagement of startups for randomized clinical trials and pilots, and a review report was sent to the DME.

*Taking the lead on facilitating industry collaboration in healthcare, NASSCOM Center of Excellence IoT AI hosted startups developing innovative solutions in breast, cervical & lung cancer screening, precision medicine, teleradiology and healthcare analytics to senior doctors at Kidwai Memorial Institute of Oncology*

## India's Defence forces seek advanced technology solutions for tactical advantage

India's defence spend this year crossed \$66bn, with a heightened focus on R&D and technology. Specifically, the government has opened up avenues for startups to develop niche defence solutions for better indigenization. In light of these developments, NASSCOM CoE IoT AI along with DRDO & GITA organized a Technical Consultative Workshop to identify technology solutions for use cases specific to defence



A technical consultative workshop by DRDO, GITA and NASSCOM was conducted in Bangalore, which witnessed several senior officials from DRDO & Indian Army interact and present use-cases to a room full of industry leaders and startups poised to solve these challenges using technologies such as AI, IoT, ML, data science and more. Representatives from the Indian Army and DRDO presented challenge areas in security that included development of tactical Local Area Networks, drones for aerial surveillance in sensitive areas, development of light vehicles for deployment underwater, IoT & AI based hazard control systems and much more.

## Manipal Health & NATHEALTH to enhance adoption of digital healthcare solutions

*As a strategic partner, NASSCOM CoE IoT to provide access to latest innovations in IoT & AI in healthcare*

Healthcare providers are hard-pressed for resources and technology solutions to ensure optimal delivery of healthcare facilities. Partnerships with Manipal Health & NATHEALTH will focus on deployment of emerging technologies for better healthcare delivery. Manipal Health, one of the nation's leading healthcare providers, and industry body NATHEALTH have collaborated with NASSCOM Center of Excellence to capitalize on the multiple benefits of advanced technologies for improved healthcare delivery in India. The partnership will leverage the benefits that IoT and AI can bring to the healthcare sector. They aim to deploy emerging technologies, to ensure better delivery of healthcare.



## Collaboration to set up healthcare IoT/AI experience zone

*NASSCOM CoE IoT & China's i-Campus sign MoU in India*

Through NASSCOM CoE, Indian healthcare startups can now access the extensive market in China, utilize R&D facilities at the I-Campus, and strategise on service commercialisation.

Apex software industry body Nasscom on Tuesday said it has entered into a strategic collaboration with China's I-Campus to accelerate healthcare innovation and cooperation in life sciences and healthcare sector. The development is part of Nasscom's ongoing efforts to bolster digital solutions for non-communicable diseases (NCDs), it said.

I-Campus, or the Wuxi International Life Science Innovation Campus, is an innovation incubation platform offering services in research and development, commercialisation and professional services in life sciences industry and has been co-built by the Wuxi municipal government, the Wuxi National High-tech District and Indian biopharma company AstraZeneca.



## Unearthinsight & CoE launch startup scoring metric for India's deeptech ecosystem

India's trillion-dollar product ecosystem has brought the focus back on the need for strategic investments to raise the profile of startups, enhance industry insights, and allow for expansive avenues for innovation. NASSCOM CoEIoT AI conducted the first edition of Tech Invest Forum with the aim of connecting India's leading investors in deeptech with the burgeoning product startup ecosystem.

50+ startups registered to participate. 17 were shortlisted to pitch. Investors & accelerators that participated in the session included Arali Ventures, Speciale Invest, Chiratae Ventures, Indian Angel Network, Ideaspring Capital, Future Group among others. The Tech Invest Forum identified Promising Startups based on startup & enterprise research firm UnearthInsight's Proprietary Start-up Scoring Framework, which along with NASSCOM CoE collected data on 20 parameters for each early stage start-up across four major categories.

## Identifying high impact tech solutions for rural development through Unnati challenge

Erstwhile deputy chief minister G Parameshwara, along with former Karnataka Cabinet Minister Priyank Kharge and members of the Karnataka IT, BT & ST department visited the NASSCOM CoEIoT to identify high social impact startups with unique technology offerings. This is an extension of the Unnati programme, initiated by the Karnataka government's Social Welfare Department, designed to involve more members of the SC/ST community in startups. The Dy CM and the ministerial delegation interacted with NASSCOM CoE leaders to understand the impact of technology-driven ventures in all spheres of society today, and interacted with some of CoE's incubated startups to witness the range of innovation taking place.





## NASSCOM Healthcare Initiative brings insurance & pharma to strategise on technology adoption

Under its flagship initiative LHIF, NASSCOM CoE hosted leaders from Lupin Pharmaceuticals, Unichem Laboratories, Abbott, Indian Pharmaceutical Alliance, AstraZeneca India, Bajaj Allianz, Aditya Birla, Reliance Health Insurance, TATA AIG & the National Health Authority in Mumbai.

Through its healthcare initiative LHIF, NASSCOM CoE is driving engagement & deliberations with industry leaders on technology adoption & acceleration in areas like insurance and pharma. Two roundtables were conducted in Mumbai on these two topics – where the delegates discussed:

- Collaboration between Hospital Chains and Insurance Companies providing seamless experience and faster claims processing
- Increasing Awareness on need for Health Insurance from average individuals
- Digital Solutions in this sector are on upswing. Multiple Startups and Tech Companies are seizing the opportunities to come up focused solutions for the industry, especially using AI
- Focus on Wellness increasing. Insurance companies are looking at preventive health
- Aggregated Health Insurance Schemes for larger group of people in un-organised sectors and Small and Medium Enterprises is going to open up newer opportunities



## National Digital Health Blueprint: Consolidation on Industry feedback facilitated

***LHIF Brings together industry leaders to deliberate on NDHB's Blueprint to forge a united, Industry-led vision on Healthcare in India***

Participants included Dr Nandakumar Jairam, Columbia Asia, senior representatives from GE Healthcare, AstraZeneca, OPPI, and HCG.

Following the NITI Aayog's Special Committee report on the framework and implementation of the National Health Stack (NHS) made public in July 2019, NASSCOM CoE led the industry feedback process by inviting industry & technology stakeholders to a closed-door workshop to deliberate on the provisions of the National Digital Health Blueprint and provide unified feedback to the NITI Aayog.



## German diplomats discuss collaborative opportunities with India

The German Ambassador to India Walter Lindner, German Consul General Margit Hellwig Botte & MP Frank Muller-Rosentritt paid a visit to the NASSCOM Center of Excellence to discuss the scope of partnerships & collaboration with Germany's startup ecosystem. Globally, Germany is among the top five startup destinations in the world, with cities like Berlin and Frankfurt nurturing cutting edge technologies across domains like fintech & manufacturing. Meanwhile, India has retained its position as 3rd best startup destination in the world. The delegates were keen to explore potential for collaboration, especially in areas of deeptech.



### Indo-Aus Market Access Programme for India's Next Big Businesses

Indian businesses are evolving rapidly, and crossing barriers everyday. In order to allow Indian businesses understand a competitive and robust overseas market like Australia, an Indo-Australian Market Access Programme was conducted at NASSCOM.

## Indian startup Entropik Tech presents solution at Israel's DLD innovation festival

India and Israel are among the foremost deeptech startup ecosystems in the world, and have been playing a pivotal role in accelerating advanced technology adoption across domains. The two countries have identified scope for mutual benefit and collaboration, in a bid to advance the innovation quotient for startups in both nations. I2I, initiated by the Consulate General of Israel to South India, is one such effort to identify Indian startups in advanced technologies. Recently, a Pitching Contest was conducted by Consulate General of Israel to South India, Accenture Ventures, Intel India and

NASSCOM – open to startups using advanced technologies like IoT & AI, have atleast two market deployments and have raised atleast half a million dollars in funding. The winner of this pitching contest was Entropik Technologies, an AI-driven multi-modal emotion recognition platform, designed to help brands measure cognitive and emotional responses of consumers.

The team won a sponsored trip to Tel Aviv, Israel to attend the DLD Innovation Festival 2019 on 18th & 19th September, 2019.

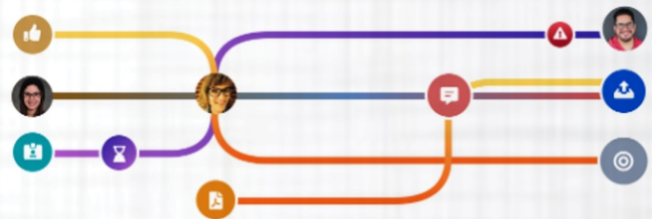
## TyDy-ing up onboarding processes for a Multinational Company

One of the biggest challenges faced by organisations is managing new hire and employee data and information across multiple systems and multiple stakeholders. This is generally done manually, and there are communication blackouts leading to an incomplete view of individual profiles. Bangalore-based HR tech startup Tydyworks to automate and consolidate data from large organisations to ensure onboarding and engagement can be brought on to a single platform. The process begins from acceptance of the offer letter and builds a personalized journey for each new hire.

TyDy has been working with a multinational beverage company to automate all operational tasks of onboarding like notifying multiple

stakeholders, sending data where and when required through the entire process and saving HR multiple hours of repetitive tasks. For each new hire, Tydy uses content and knowledge from within the company to engage and take each individual through a completely personalized journey that results in the fastest time to productivity. As part of the next phase, Tydy will automate data collection and automatically kick off relevant processes like Background checks, data unification and much more.

### Automation for HR



## PlugO installs on-the-go chargers at Manipal Hospital & India Mobile Congress

PlugO, India's first smart & fully automated power bank rental service, recently tied up with Airtel at the India Mobile Congress to provide on-the-go charging solutions on the go. PlugO has installed 42 devices at 21 locations within the IMC venue in New Delhi.

PlugO has also installed two devices in Bangalore's Manipal Hospital – near the ICU and the Emergency Wards. Nawal Lodha, cofounder is positive that more devices will be installed in and around critical care hospital units.



## SwitchOn raises \$1 million from pi ventures

SwitchOn, an industrial technology firm, has raised \$1 million in seed funding led by pi Ventures, an Internet of Things-(IoT) and Blockchain-focused early stage venture fund.

Founded by Aniruddha Banerjee and Avra Banerjee in 2017, SwitchOn is an industrial tech company that helps manufacturing industries identify plant-level bottlenecks and improve equipment efficiency.

Axilor, an early stage investment firm led by Infosys founders Kris Gopalakrishnan and SD Shibulal, and angels from The Chennai Angels also took part in this round. The fresh funds will be used for strengthening the edge-compute architecture, expanding the team and market adoption in India and other countries in the European Union and Asia Pacific region.

SwitchOn is leveraging deep expertise in hardware and software design to create state-of-the-art edge solutions for increasing transparency, reducing turn-around, and improving quality on the shop-floor of manufacturing industries to ultimately achieve operational excellence. We believe that our customers will benefit heavily from our expanded global footprint and deep technology differentiators,” Aniruddha Banerjee, Co-Founder at SwitchOn said.



## LazyCo wins Asia Hardware Battle, to pitch at finals in Shanghai in October

LazyCo emerged winner of the Asia Hardware Battle held in Bangalore, and have secured a place to pitch at the final regional event scheduled to be held in Shanghai in October. LazyCo’s award-winning product Aina is an AI-enabled ring intended to be a faster and easier to use interface than a touchphone screen. This ring can connects to your phone via Bluetooth, can be used as a personalized remote for controlling smart home devices, booking cabs and unlocking devices, besides taking phone calls and talking to voice assistants. It can also act as a fitness and sleep tracker.



## Robotics deeptech startup CynLr raises INR 5.5cr from Speciale Invest & Arali Ventures

Robotics deeptech startup CynLr raises INR 5.5 Cr from Speciale Invest & Arali Ventures among others. Over the 4 years since inception, the founders Gokul NA and Nikhil Ramaswamy have executed more than 30 custom engineered, machine vision-based robotic solutions for large manufacturing customers with a 100% attempt-to-success rate and have bootstrapped a sustainable business. Having proven the core intellectual property through these deployments, the founders are now aiming to productize their technology. CynLr plans to go-to-market with a single universal vision guided Pick>Orient->Place robot platform capable of handling varied types of objects.

Manufacturing customers can now rapidly deploy robots using the CynLr platform, without having to worry about custom designed fixtures and positioning systems which are currently mandatory for every robot deployment.

Speaking about the investment, Vishesh Rajaram, Managing Partner from Speciale Invest said “We believe Vyuti is poised to become the brain and eye for every robotic hand, which would allow it to pick, orient and place items as reliably as humans, a development that could lead to the automation of all warehouse and manufacturing line jobs on earth”

Further, Rajiv Raghunandan, Managing Partner from Arali Ventures said “We believe that CynLr’s approach of bringing together machine vision and AI will significantly enhance object intelligence for industrial robots, thus paving the way for greater penetration of robotics application across various industry segments”.

## Cradlewise wins design award in Hungary

Cradlewise Inc. a Qualcomm Design in India Challenge winner, won the Platinum Award in the Children's Nursery products category of the Europe Product Design Award. Product designers Makarand Kulkarni and Nilesch Misal from Ether Design received the award in Hungary. The European Product Design Award™ recognizes the efforts of talented international product designers who aim to improve daily activities and regular tasks with their practical, well-thought-out creations.

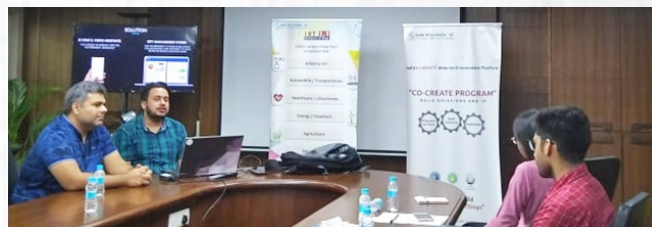


## Lead Angels & Investopad shortlist six CoE Gurugram Startups for Next Investment Round

11 Startups that include DronaMaps, Liradolf, Avrio, Donkeyworks, Kashware, Civil Cops, Deepsights AI Labs, Invoid, AIEye, Galaxy Card & Capital Quant pitched to the Investment panel, with 4 teams shortlisted by Investopad & 2 teams by Lead Angels for the next round.

NASSCOM Center of Excellence - IoT & AI invited the Investment teams of Lead Angels & Investopad at Gurugram center for an exclusive opportunity to interact in a 1:1 pitching session with startups innovating in HealthTech, AgriTech,

Smart Cities, Fintech & Industry 4.0. Investment team members present included Ishan Jindal, Head Investments, North & East, Lead Angels; Sera, who leads deal-flow for North & Eastern region and analyst Akul Garg, both with Investopad



## Hands-on Session on Breast Cancer Detection



Ahead of World Breast Cancer Awareness Month (October) founded in 1985 in October as a partnership between the American Cancer Society and the pharmaceutical division of Imperial Chemical Industries (now part of AstraZeneca) NASSCOM CoE-IoT & AI and Equonix Tech Lab organised a hands-on session on Breast Cancer detection, which was attended by more than 50 people from enterprises, startups and academic institutions

There were more than 50 attendees consisting of basic & advanced developers from enterprises like SopraSteria, United Health Group, TCS, HCL, Inventum Technologies, Publicis Sapient, Globallogic etc and startups like Attentive AI, Empass, Anasakta Labs, NEbulARC, SirionLabs, VisionNetworkz etc. Students from ICGEB/JMI, Indira Gandhi Delhi Technical University etc also participated in the session.

The session first half focussed on Wisconsin Diagnostic Cancer (WDBC) & Invasive Ductal Carcinoma (IDC) datasets insights, Visualization of Dataset, feature selection and why they are chosen and how the physical parameters are translated into a dataset. In the second part, the focus was on Feature Selection and CNN, random forest based classification of cancer as malignant or benign followed by the optimised the deployment strategy & cost estimation.

## Prosperity through Patents: Strategic use of IP for emerging businesses

To demystify the procedure for a filing a patent in India or abroad and to highlight the associated government supported fiscal benefits, NASSCOM Center of Excellence in cooperation with the European Business and Technology Centre (EBTC) invited senior delegates from the European Patent Office (EPO), the Ministry of Electronics and IT (MeitY) and National Research & Development Co-operation (NRDC), for a seminar on “Prosperity through Patents: making strategic use of IP/patents for startups and emerging businesses”.

**Speakers included:** Poul V. Jensen, Director, EBTC, V. K. Jain, Senior Manager, NRDC, Anal Kumar Roy, MeitY, Sumantra Mukherjee, Director, KPMG, Srihari S K, Partner, K&S Partners & Sudhanshu Mittal, Director, NASSCOM CoE-IoT.

The seminar primarily focussed on:

- Technology commercialisation for Indian innovators
- IP Management Strategy
- Procedures for filing patents outside India through international mechanisms such as PCT
- Importance of prior art searches
- Fiscal & Non-fiscal government benefits for IP filing in India & Europe
- Fundamentals of Licensing
- Special Session on the newly released Software Product Policy

There were over seventy attendees exclusively invited for the seminar which primarily comprised of - Product Innovators & Startups (55%); Independent Researchers & Research institutes (20%)& IP Attorneys & Law Firms (25%).



## How to build & integrate a trusted ML model: Artificial Intelligence, Data Refinery and Data Governance



NASSCOM CoE & IBM organised a technical workshop on how to build & integrate a trusted ML model: Artificial Intelligence, Data Refinery and Data Governance using IBM Watson Studio and open source components like openShift & Kubernetes. Hands-on for ML model development focussed on Product recommendation engine based on Retail customer dataset & Loan eligibility model based on Financial profile dataset. The session was conducted by Rajesh K Jeyapaul, Cloud Solution Architect in the IBM Ecosystem & Developer team. He is focused on enabling partners and developers on IBM cloud solution especially on Bluemix, IoT, Mobility and Big Data.

## Airveda shortlisted by GMDA to setup air quality monitors in Gurugram

CoE Gurugram incubated, Airveda Technologies, has been shortlisted by Gurugram Metropolitan Development Authority (GMDA), for deploying 50 air quality monitors across Gurugram. These air quality monitors will display the levels of PM 10 and PM 2.5 in ambient air.

The expenses of installation will be borne by the agencies as part of their CSR initiatives. The private players will share the air quality data with the development authority on a real-time basis,” said a GMDA official. He also said a pact has been signed with air quality monitoring (AQM) partners in due course. Meanwhile, the three partners.

Airveda, co-founded by Namita Gupta, offers portable and connected air quality monitoring devices, designed and manufactured in India. The devices are connected to an app which syncs the data

with a cloud server and can be visualised over customised dashboards. Airveda monitors PM2.5, PM10, CO2, Temp, Humidity & TVOC for Indoor environments and PM2.5 & PM10 for outdoor environments. Airveda monitors use a high-quality laser-based sensor which is calibrated against a BAM (Beta attenuation monitor) to provide the most accurate results. Comparison data with BAM shows a correlation of greater than 90%.

Several schools across Delhi like Pathways, Ardee School, Vasani Valley, American Embassy School, British School use their monitors to make data available to students and parents and make decisions regarding outdoor playtime to reduce exposure for students who are at most risk due to their developing lungs. Several RWAs like Park Place, Palms, Arralias use their monitors in their condominiums enabling residents to make better decisions with regards to pollution exposure.

## NaraIoT wins \$10,000 in ADB

### AIM Hackathon for 'Future proofing Global Water Crisis' category

NaraIoT, CoE Gurugram incubated startup, became the only Indian company to have won US\$10,000 in ADB (Asian Development Bank) AIM Hackathon for 'Future proofing Global Water Crisis' category. The hackathon was organized at the ADB Headquarters, Manila, Philippines from 31st Aug to 2nd Sep 2019. A total of 220 teams from 39 countries, participated to create a solution for the Global Water Crisis.

Agua, powered by NaraIoT, is an integrated real-time water management solution that works to increase the availability of water through optimization of water usage, consumption and flood management. The product has been under development for four years and through ADB it has created a global visibility for its solutions. The winning teams are 'Eskwelabs' from the Philippines and 'Gnowbe' from Singapore for the 'Building the Digital Skills of Employees' category; 'FlexM' from Singapore for the 'Developing Digital Payment Solutions' category; and 'Agua Wireless Systems' from India for the 'Future Proofing for the Water Crisis' category. The solutions leverage emerging technologies such as the internet of things, artificial intelligence, and digital payments.





## Retail AI startup Vedalabs raises preSeries A funding from Satin Neo Dimensions



*The Team at AI startup Vedalabs*

Vedalabs, an AI startup that helps retail stores, has raised its preSeries A round from end-to-end retail store solutions provider Satin Neo Dimension, to expand its reach in retail analytics.

With this development, serial investor and Founder of Satin Neo Dimensions Satvinder Singh will join the startup's board. Vedalabs plans to use the funds raised to expand its product capabilities into intelligent store fitouts as well as scale the current products to store level analytics.

Last November, the startup had scaled its presence in the US with an investment from Alchemist Accelerator as well.

With deep expertise in AI, computer vision, as well as retail technology space, Vedalabs makes it possible for retailers to understand footfall, as well as gives an overview of demographics, repeat count, and more deep insights so as to make more informed decisions at a lower cost but with higher accuracy. This, in turn, allows enterprise, retailer, and warehouses to plan more accurate offers and improve in-store experience by providing personalised experiences to every end consumer.

*"NASSCOM CoE has helped us in scaling the product, we have been constantly in touch with Shantanu, Sudhanshu for appropriate industrial connects and guidance on how to scale the tech stack. NASSCOM has given us an opportunity to exhibit in Cia Tech Japan in month of October 2019."*

*- Vivek, Veda Labs*

## First-of-its-kind Industry Use Case document on manufacturing launched

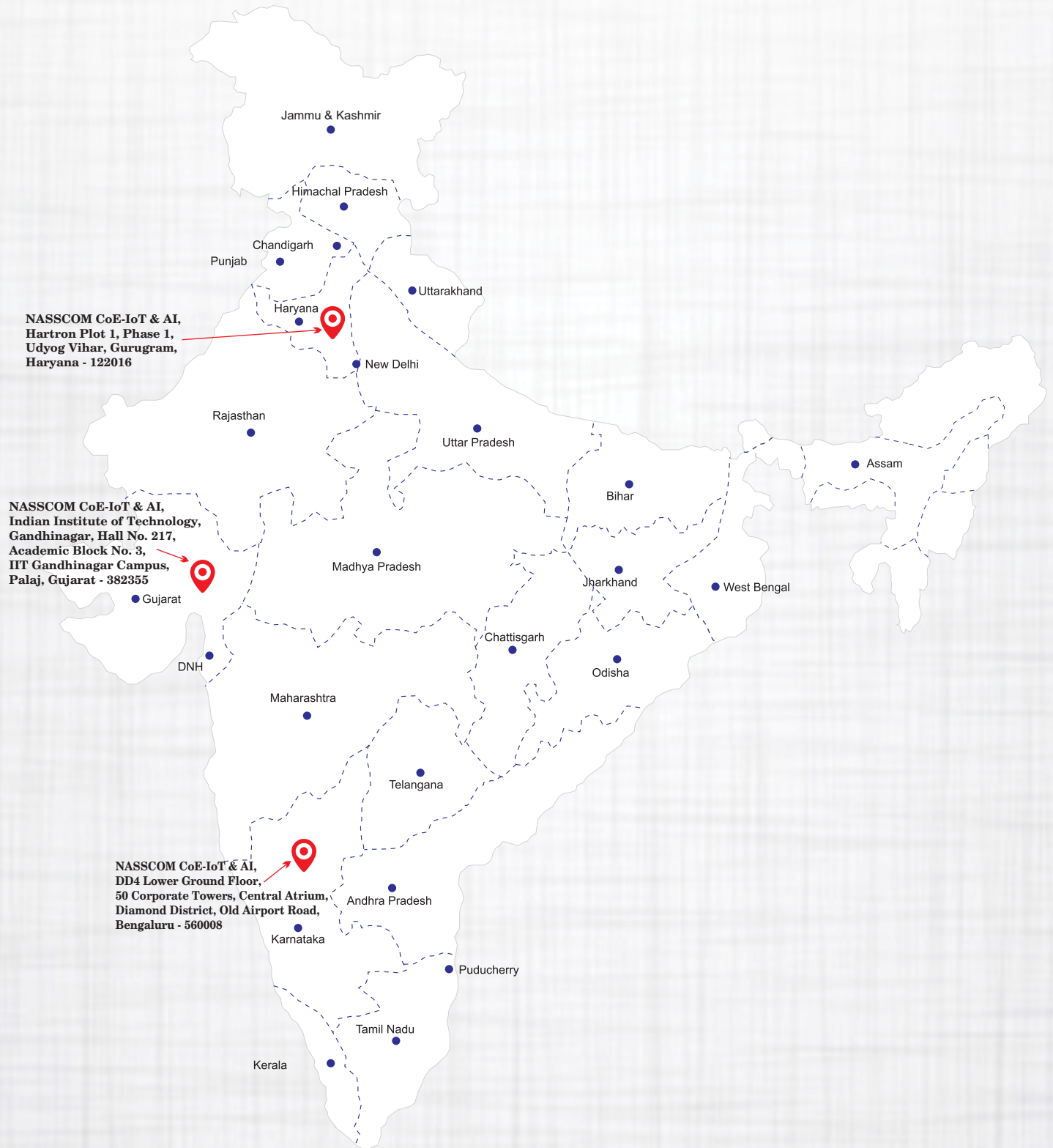


At the Industry 4.0 event, the NASSCOM-FICCI Industry 4.0 Case Study Collection – a compilation of 10 industry use cases that emanate with the event theme - Improving Competitiveness in Manufacturing Using AI & IoT.

## Gujarat's biggest technology startups get a glimpse into IBM's strides in AI & IoT

NASSCOM CoE IoT AI Gandhinagar and IBM conducted a workshop to bring young startups to get updated with the latest transformations in AI, ML and IOT, and discuss in detail specific to their use-cases. This will also help in further accelerating and growth of startups with proper guidance from industry. The workshop provided a unique opportunity to five startups, for the end-to-end mentorship and cloud support, specific to their use cases, directly from experts from IBM.

*Five startups were given the opportunity to work with IBM – to receive mentorship, cloud support & solve industry-led use cases*



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A MeitY Initiative with Govt. of Karnataka, Haryana, Gujarat & AP

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