CONSOLIDATED REPORT

CoE-IoT & AI

JAN-MAR
2020

Ministry of Electronics & Information Technology
Government of India

सत्यमेव जयते
Government of Gujarat

CoE incubated startup enables remote assistance tech support using AR & AI for assembling Aircon units in Wuhan

BlinkIn, a startup incubated with NASSCOM CoE Bangalore, embarked on one of their most ambitious missions earlier this year. Their tech was being used to remotely monitor and manage aircon units in Wuhan's Huoshenshan Hospital - an emergency field hospital constructed to specifically cater to patients affected by Coronavirus. The industrial province of Wuhan was the first major epicenter of the Coronavirus outbreak. Due to the extensive travel bans placed on Wuhan, movement of people to & fro became a challenge, making it impossible to physically install aircon units in the hospital for workers and medical staff. BlinkIn's XCare tech, used by aircon assembler Huber+Ranner, stepped in to remotely assemble and manage the functioning of these aircons.

The MD of Karnataka Innovation and Technology Society Mr. Prashanth visited the CoE IoT lab in February 2020 where he met and interacted with startups and talked about scaling innovations.

5th edition of Connected Vehicle 2020 held in Bangalore

NASSCOM Centre of Excellence – IoT & AI in partnership with Telematics Wire organized the 5th edition of the biggest show of the Connected Vehicles in India 'Connected Vehicle 2020' at Bengaluru. Connected Vehicle 2020 was a three days conference from 3rd to 5th March 2020. More than 80 exhibitors, 10 connected vehicles were on display and over 1200 delegates from different sectors attended the show to hear and meet the 60 speakers during 10 different sessions. Connected Vehicle 2020 was aimed at exploring the upcoming technology trends and disruptions that affect the traditional vehicle manufacturers and suppliers, potential new players, regulators, consumers, markets, and the automotive value chain.

BIRAC and NASSCOM sign MOU for collaboration:

BIRAC & NASSCOM sign a MoU to jointly drive National Digital Healthcare Innovation initiative, on 20th March at New Delhi. The initiative is aimed at improving the accessibility, affordability and quality of healthcare across India with the development and deployment of innovative solutions using the emerging technologies.

A delegation from Vietnam's Ministry of Planning and Investment visited the CoE IoT facility at Bangalore.
The Minister presented the Vietnamese tech sector priorities and expectations from NASSCOM especially on startup enablement. They were also presented with facts about the Indian IT landscape with spotlight on the extensive startup Ecosystem, NASSCOM's Future Skills platform and a tour of the entire facility.

Eight German Ministers who are key members of the committee on Economic Affairs & Energy in the German Parliament and the Consulate team visited CoE IoT in February.

Shri. Sachin Gusia IAS Gujarat paid a visit to the CoE lab in Bangalore in February. He spent time with the CoE leadership on grooming an innovation model and spent time with startups as well.

AstraZeneca meeting on January 2020

Cisco and VMware Start-up interaction - February 2020

Renowned pulmonologist
Dr H B Chandrashekar
visits
NASSCOM CoE
to explore the
startup innovations
intended to address COPD.

DELEGATION VISIT

AZ Global Leadership Team visits CoE. Startups like Janacare and Predible were showcased during this meeting to the leaders.

Mr. Ankur Malhotra, Head, Government Relations at HP Enterprises and his team visited CoE to explore the synergies in bringing affordable point of care devices to the primary care centers being set up by HPE across all the centres.

Mr. Dirk Voelkel, Chief Innovation Officer, GE Healthcare BioPharma, visited CoE to explore the opportunities to work with Indian Innovators in io-Technology space and R&D Teams in India

Mr. Guruprasad, Vice President & Director, Robert Bosch Engineering and Business Solutions held discussions with CoE for providing opportunities for the cutting edge innovations from the startups to conduct field trials in collaboration with the eco-system.

Business Sweden AstraZeneca and NASSCOM CoE have discussed the modalities in setting up India Sweden Innovation Centre at AIIMS Jodhpur, where NASSCOM CoE as a Knowledge Partner will help in sourcing some of the best innovations through an Innovation Challenge.

GE Aviation Team visited CoE for discussion on Co-Creation Programs

Automatic License Plate Recognition & Model deployment via Kubernetes

11th January 2020: The recent push towards FASTags by the authorities is seen as a great step towards the digitalisation of Smart Cities. However, this necessitates the distribution of FASTags for the users and deployment of associated infrastructure at Toll booths. The cameras at the Toll booths can be used for Automatic License Plate Recognition (ALPR) systems that allow detection and recognition of license plates & vehicle type.

NASSCOM CoE - IoT & AI, Gurugram and Open Data Science Conference (ODSC) Delhi organised a Hands-on session on Automatic License Plate Recognition (ALPR) System with OpenCV & Model Deployment via Kubernetes on Saturday, 11th January 2019 at CoE Gurugram center.
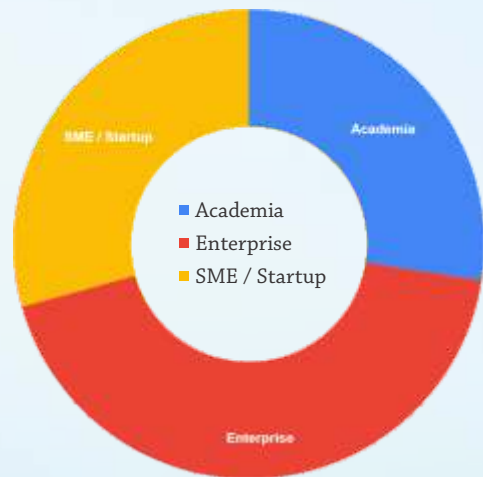
Hands-on Session 1: Model Deployment via Kubernetes by Kuldeep Duhan, ODSC Ambassador for North India

Hands-on Session 2: Automatic License Plate Recognition (ALPR) System with OpenCV by Sonal Kukreja, PhD Scholar working in copyright protection and authentication of digital images Automatic License Plate Recognition (ALPR) systems are used to automatically detect and recognize license plates in images. This hands-on session helped the attendees to develop a vehicle license plate recognition system using OpenCV and computer vision algorithms.

ATTENDEE PROFILE:

The session was attended by over 150 participants like Enterprises like TCS, Cognizant Technology Solutions, Accenture, Airtel, Barclays, Colt Technology Services, Denso, Ericsson India, EY, Ford, Gartner, Genpact, HCL, IBM, IndiaToday, Jio, JK Technosoft, KPMG, McKinsey, Nagarro, National Statistics Office, NIIT, PayTM, Publicis Sapient, PWC India, Rohde&Schwarz, Stryker, TATA Communications Limited, Thoughtworks, Vinculum,

UHG, Wipro, WNS Global Services, academia like ABES Engineering College, Amity University, Delhi University, Indian Institute of Technology Delhi, GB Pant Government Engineering College, Guru Gobind Singh Indraprastha University Delhi, Guru Tegh Bahadur Institute of Technology, Indian Institute of Technology Kanpur, Indian Institute of Technology Bombay, Jaypee Institute Of Information Technology, JSS Academy of Technical Education Noida, KIIT College of Engineering, Maharaja Agrasen Institute of Technology, Netaji Subhas Institute of Technology (NSIT), Noida Institute of Engineering and Technology, PDM University Bahadurgarh, Ramanujan College, Thapar University, YMCA University of Science & Technology Faridabad and Startups/SMEs like Ambient Technologies, AuthBridge, BoticX Lab, BuyUcoin, Cuvora, DocsInBlocks, Droom, Egregore Labs, Grid Infocom, Hike, iAdapter, Incedo, KnockIoT, Mixorg, Nable IT Consultancy, Nayan Technologies, Nebularc, Nerd App Labs, NuageBiz Tech, Redgirraffe, Savanta & Thinkbumblebee Analytics.

GDG: IoT in Cloud

25th January 2020: We live in a world of the Internet of Things. Join us to know about the latest happenings in IoT and how cloud is enabling new solutions every day. NASSCOM CoE & GDG Cloud New Delhi have organised a Workshop on IoT in Cloud.

AGENDA:

11:00 AM - 11:30 AM	Registrations
11:30 AM - 12: 10	PM Bring IoT & Computer Vision together
12:10 PM - 12:50 PM	Cloud to Fog: Market Demand
12:50 PM - 1:30 PM	Lunch
1:30 PM - 2:10 PM	IoT solutions for smart cities - Air pollution and Challenges
2:10 PM to 2:50 PM	IoTfying your workplaces (Smart Workplaces)
2:50 PM - 3:30 PM	Practical approach to buzz word "IoT": Challenges & Solutions

SPEAKERS PROFILE:

Vishal Bhardwaj
Vishal is Technology Architect, IoT Solutions, Intelligent Devices Group (ThinIoT). He is involved in detailed phases of Product Research to establish technology and use-case viability and accountable for analyzing, designing and optimizing major modules such as App Data flow, undo-redo framework, Customized data logging with indexing, Generic data export, Message processing framework, Licensing, Signal flow framework, Callback mechanism, Automation Interface, SDK, App Store and many more. Along with individual contributor role, he is actively involved in customer interaction, mentoring, architecture, Requirement Analysis, Feasibility Analysis, Effort Estimates and Quality assurance.

Vaibhav Srivastav
Vaibhav is a Data Scientist & Google Cloud certified Data Engineer, working with Deloitte Consulting LLP. He works with Fortune Technology 10 clients to help them make data-driven (profitable) decisions. He serves as a Subject Matter Expert on Google Cloud Platform to help build scalable, resilient and fault-tolerant cloud workflows. Prior to this, he has worked with startups across India to build Social Media Analytics Dashboards, Chat-bots, Recommendation Engines and Forecasting Models. His core interests lie in Natural Language Processing, Machine Learning/ Statistics and Cloud based Product development.

Pranay Nanda
Pranay Nanda is Google Cloud Certified professional with ~4 years of experience in solving business challenges pertaining to architecting and implementing large scale business solutions on the cloud. He is skilled in designing for scale and building end to end cloud-native, robust and resilient production-grade IT infrastructure. He is proficient in collaborating, building consensus, deliver, and driving technical decisions with various sized customer stakeholder groups.

Kubernetes Workshop Series: Introduction to OpenShift

29th February 2020: Red Hat OpenShift is an enterprise-ready Kubernetes container platform with full-stack automated operations to manage hybrid cloud and multi-cloud deployments. Red Hat OpenShift is optimized to improve developer productivity and promote innovation.

With Red Hat OpenShift, developers have a fast and secure way to containerise and deploy enterprise workloads in Kubernetes clusters. OpenShift clusters build on Kubernetes container orchestration that offers consistency and flexibility for the development lifecycle operations. Red Hat OpenShift on IBM Cloud is an extension of the IBM Cloud Kubernetes Service, where IBM manages OpenShift Container Platform for the developers.

NASSCOM CoE & IBM have organised a Kubernetes Workshop Series: Introduction to OpenShift at CoE Gurugram center. This workshop will help the developers to become familiar with Red Hat OpenShift and deploy applications on and with OpenShift.

SPEAKERS PROFILE:
Mangesh Patankar is working with IBM Digital Business Group as Developer Advocate – IBM Cloud. He has around 18 years of experience and currently is working with ISV's, Partners, Startups Developer Community enabling them to adopt IBM Cloud technologies. He has represented IBM in various forums/events as a Keynote speaker on Watson and IBM Cloud. Prior to IBM, he has worked with organizations like Oracle, Patni, Syntel, Reliance Consultancy Services – right from Development, Designing, Architect to Pre-Sales role.

Karan Chaturvedi is Cloud Technical Evangelist/ Developer Advocate at IBM and has 10 years of experience in working with Enterprise, Corporate segment and E- Governance practice. Prior to IBM, Karan was associated with the companies like NTT Communications, Huawei telecommunication and Navisite for the cloud initiatives. He has completed his technical certifications in Vmware, IBM, Cisco, HP (VCP 5, IBM AIX technical and sales certified , IBM Netcool/Omnibus, HP X 9000, CCNA etc) technologies.

ATTENDEE PROFILE:
The session was attended by over 150 participants like Enterprises like Bechtel India, British Telecom, Ericsson, Genpact, HCIL, Nokia, Orange, Publicis Sapient, TATA Communications Limited, TCS, EXL, academia like ABES Engineering College, Kiet group of Institutions, YMCA University of Science & Technology Faridabad, Manav Rachna University, Ramanujan College, Startups/SMEs like Algofocus, IHSMarkit, Mintware, NebulARC Technologies, Northshore Technologies, OpenDataLabs, Protech Systems.

AGENDA:

- Getting Started with OpenShift for Developers
- Basics of the OpenShift platform
- Using the oc CLI and the Web Console
- What is a project? Creating a project in OpenShift
- Deploying an app from a Docker image
- Scaling an app, self-healing
- What is a Route? Creating a Route
- Using Source-to-Image to create an app

Seminar on use of freely available Patent Information Resources

20th February 2020: NASSCOM Center of Excellence – IoT & AI in cooperation with the European Business and Technology Centre (EBTC) and the European Patent Office (EPO) is organizing an Interactive Seminar on Use of Patent Information Resources. This seminar brings together Emerging Technologies based Startups & SMEs & Product companies to provide a deep understanding of the Patent information resources within the IP framework and consequently leveraging IP for commercial success. It will also include a case study using freely available patent information resources.

KEY SPEAKERS:

Dr Ajai Kumar Garg: Dr Ajai Kumar Garg, Director, Ministry of Electronics & IT, Government of India, heads Innovation and IPR Division, Software Industry Promotion Division, International Cooperation - Bilateral Division & Multilateral division at Ministry of Electronics & Information Technology, Government of India.

Hana Onderkova: Hana has 10 years of cross-functional experience in the field of Intellectual Property (IPR). At EBTC, Hana's role involves coordinating activities of the European Patent Office (EPO) to enhance IP awareness of the Indian Industry as well as to foster co-operation with the relevant Indian authorities. Hana is managing Europe-Indian IP Facilitation Forum which creates a body of knowledge together with partners and provides support to businesses.

Tanmay Mittal: Tanmay Mittal, Head IP Solutions - India Region has close to 8 years of professional experience, He continues to be a dedicated and enthusiastic IP consultant with zeal to learn and a knack for understanding diversified technologies. He has worked in the Intellectual Property CoE for consulting stakeholders regarding Intellectual Property related assessments.

What was covered:

- Technology commercialisation for Indian innovators & IP Management Strategy
- Patent information resources, overview and advantages of using it
- Procedures for filing patents inside & outside India
- Importance of prior art searches
- Fiscal & Non-fiscal government benefits for IP filing in India & Europe
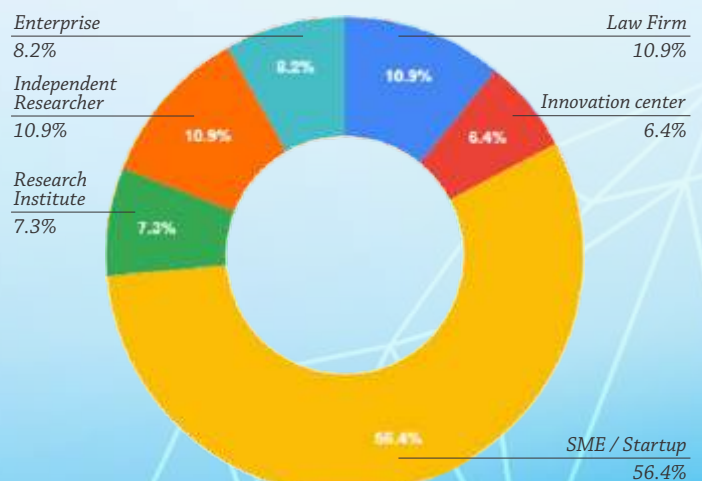- Case study using freely available patent information resources

"The number of IPR filings in India have increased significantly. Earlier there used to be 4,000 to 4,500 IPR filings annually six to seven years ago but today this number has nearly doubled in India," he told PTI on the sidelines of a seminar organised by the NASSCOM Centre of Excellence here. The governments, both Central as well as States, are supporting start-ups and MSMEs on how to create better footprint around IPR. We should not work only for others, but also create IP for ourselves. Start-ups are the only way to do it and if we do not support it then we will forever remain dependent on technology. IPR is the only way to have ownership of technology."

- Dr Ajai Kumar Garg
Director, Ministry of Electronics & IT, Government of India

Attendee Profile

- Enterprise 8.2%
- Law Firm 10.9%
- Independent Researcher 10.9%
- Innovation center 6.4%
- Research Institute 7.3%
- SME / Startup 56.4%

COVID-19 Coronavirus Dashboard for Govt. of Punjab

A pandemic like COVID-19 needs to be dealt with special efforts to contain & prevent the spread. DronaMpas volunteered to contribute to these efforts by providing a reliable dashboard & patient tracking mechanism.
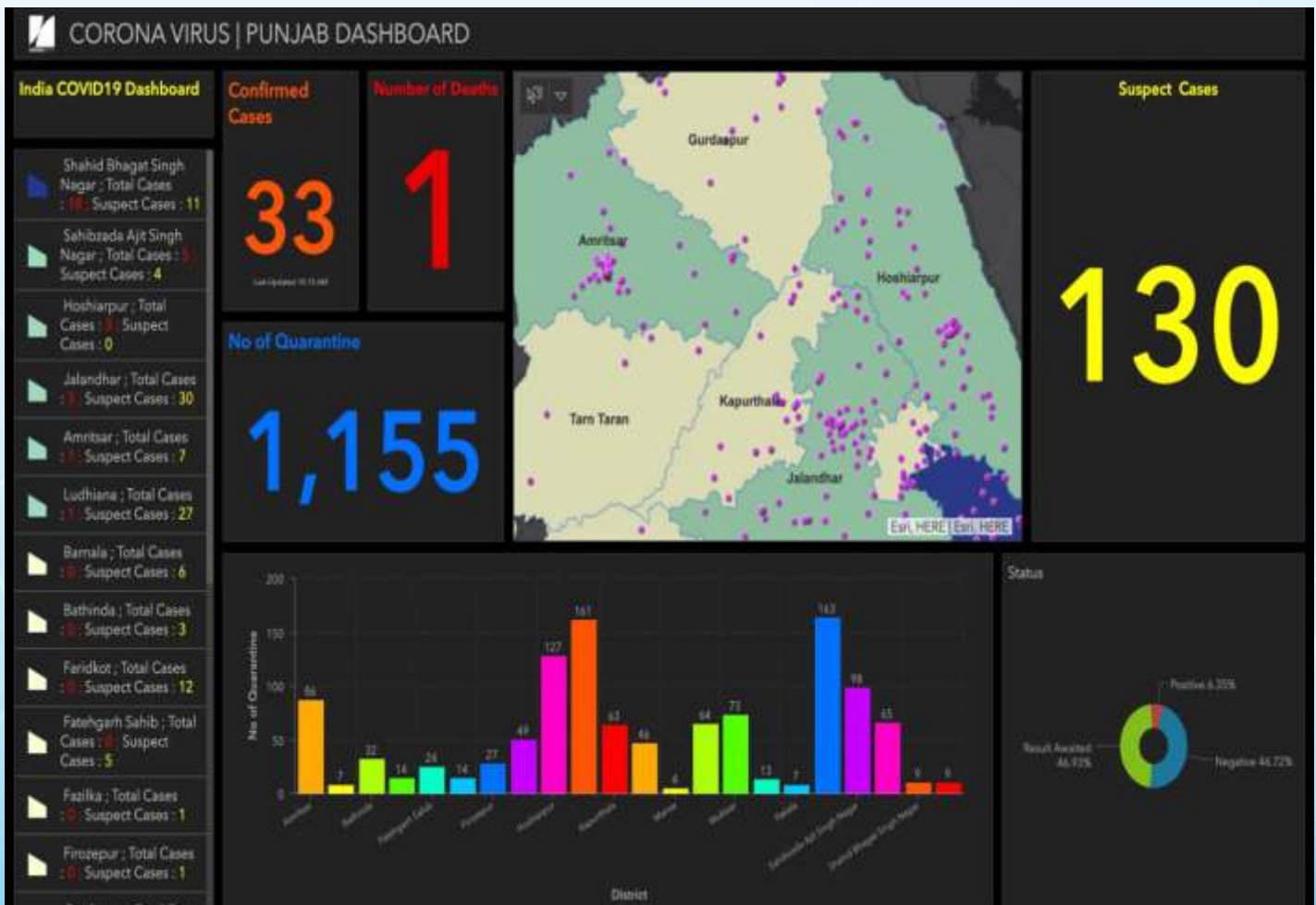
Co-Founders : Utkarsh Singh & Ayushi Mishra

Success: DronaMaps has deployed a user-facing public dashboard that is built to provide information pooled from official sources for citizens at large. The second is an administrative dashboard for the Government of Punjab with more advanced features like Heat Maps and red zoning of districts / sub-districts based on real-time location of quarantined patients with density distribution as well as geofencing and alerts for high-risk patients/suspects. It uses the following tracking mechanisms:

• using Live GPS via Phone App
• Using Tower CDR data
• Using Cell operator VLR data

"Nasscom CoE-IoT has enabled the technology we have built - 3D mapping bringing together drones, autonomous cars and smart cities powered directly through the CoE-IoT at Gurugram. The decision makers visiting CoE-IoT get all the solutions to their modern mapping needs under one-roof, in sub-centimeter level accuracy. Our development team out of the CoE Gurugram is particularly focusing on publishing advanced algorithms in AI and its local datasets of the Indian terrain to bring the best of the world, right here at home"

- Utkarsh Singh

INDIA DASHBOARD

Heritage Preservation in Digital Space, 3D printing of Ventilator parts and Face Shields for Covid-19

Co-Founders: Dr. Anupama Mallik, Prof. Vijay Chandru, Prof. Santanu Chaudhury

Heritage Preservation: Our heritage is very fragile, as wear-tear, and natural and man-made disasters keep destroying it and erasing it from our landscape and memories. Vizara is dedicated to digitization of tangible and intangible heritage and is working with the government in creating AR-VR and 3D printing based digital installations for monuments. Some of these were recently showcased at the International Heritage Symposium and Exhibition (IHSE) 2020, inaugurated by the Minister for Culture and Tourism at the National Museum, Janpath, New Delhi in January.

A month-long exhibition of interactive, intelligent and immersive exhibits with 3D printed replicas of Kashi Vishwanath temple, Taj Mahal, Sun Temple Konark, and Hampi temples was held at the Museum and visited by thousands of visitors including the DG, UNESCO and the Minister for Science and Technology, GoI. An exhibition show-reel can be seen here: https://youtu.be/lZr35nKPMks

Covid-19: In these trying times of COVID-19, Vizara is dedicated to contributing towards providing assistance in any form to our medical community, who are at the frontlines right now to help combat this disease. We were asked by the Department of Science and Technology to 3D print some samples for Ventilator splitters and flow-limiters and deliver to AIIMS for testing.

Since the ventilators are in limited supply and hospitals may reach maximum capacity soon if the situation worsens, adding these Y-shaped circuit splitters can allow for single ventilators to be used for multiple patients, increasing the capacity of these machines. The cylindrical parts – flow limiters – assist in controlling and moderating the flow of the ventilators to help cater to varying requirements of different patients. We would encourage everyone to play their part during this health crisis, to help our nation fight this off – even if it is as little as complying to the current national lockdown and maintaining social distance if you have to go outside for essentials. Every person's contribution at this time is essential.

"We are committed to fully support our health-force in tackling and fighting the spread of Corona Virus. We are grateful to the Department of Science and Technology to have the trust in our 3D printing capabilities and in providing us the necessary passes and permissions to be able to 3D print the parts for ventilators and deliver them to AIIMS for testing. We are also grateful to NASSCOM CoE-IoT & AI for providing the logistics and admin support to run our 3D printers at their Labs. We commit to design and manufacture any items as may be needed by our medical staff during this fight against Covid-19 in India."

– Anupama Mallik

Free Flow Highway Travel & Parking Experience

Stackfusion is a smart parking & Toll automation solution. They have an edge device based computer vison led product consisting of Automatic License Plate Recognition & Vehicle detection with in-house image detection algorithms for recognising indigenous license plates. The real time identification of a vehicle, calculation of fee (toll or parking) and auto epayment transaction ensures that the traffic is non-stop and the user gets a smooth uninterrupted experience.

Their solution has been accredited by the National Highway Authority of India (NHAI) as a technology innovator for next generation ETC (Electronic Toll Collection) systems. Further, theirs is the first Indian solution to have successfully integrated FASTag for cashless payments in commercial parking space.

Co-Founders: Sumeet Mahapatra & Pranay Sharma

Stackfusion

NASSCOM CoE has been the perfect launchpad for us. We have immensely benefited from the CoE Lab at Gurgaon where we could rapidly iterate and test our embedded hardware and sensor integrations. The peer group at CoE enables us to collaborate with other startups in the areas of Artificial Intelligence, Proof of Concepts, industry approach among others. CoE has helped us in gaining traction, especially in the Public Sector space owing to the deep network it has. A big plus point also has been the support we have received from CoE partners for Cloud Computing, Edge GPUs, & booths at Expos/Exhibitions."

- Pranay Sharma

Dispenser Hacking Challenge

NASSCOM CoE-IoT & AI has entered into a definitive contract with Bharat Petroleum Corporation Limited (BPCL) to drive a challenge to identify the hacking possibility (both hardware and software) in the fuel dispenser unit used at the filling stations.

CoE Gurugram initially shortlisted 15 companies, for the Ethical Hacking challenge. After the joint session along with the BPCL team, 6 curated innovators submitted the one pagers for their approach towards discovering the vulnerabilities. Finally, 2 teams were shortlisted to be present at the BPCL, Navi Mumbai, where they were joined by the Fuel dispenser unit manufacturer. Manish Bajpai and Aravind NA from Nivetti Systems and Arun Magesh along with Asmita Jha from Payatu visited the BPCL unit at Mumbai for
2 days. There they were joined by technical experts from BPCL and their vendor who explained them the working of the fuel dispensing unit. The teams conducted their experiments on the units and made their observations.
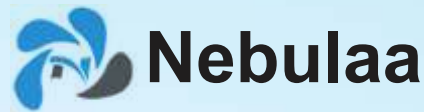
Subsequently the teams provided their details reports about the potential weaknesses in the fuel dispensing units. The reports are under study by BPCL team along with their partners and on the basis of their final recommendations, the cash reward upto Rs. 5 lacs shall be given to the teams. It may potentially be followed by initiating the deployments with BPCL by the shortlisted innovators which come up with solutions to plug the identified vulnerabilities.

"In late 2018 NASSCOM CoE-IoT & AI brought an interesting problem statement from a public sector Oil & Gas company. The company had clear vision and meant business. The problem was to inspect/count LPG cylinders moving on a conveyor line using ordinary CCTV cameras in real-time. We took up the challenge and successfully demonstrated our solution. And that led to our first PO and Customer - a Fortune 500 oil & gas major! This turned out to be a great opportunity for my startup and has put us on a growth trajectory and we are thankful to CoE for that. We have been associated with reputed incubators / accelerators but CoE is at a different level, especially from a go-to-market perspective. We receive inquiries from several CoE members too. This is truly invaluable for early stage deep tech startups like ours!"

– Raghuram, Founder Algotech

Nebulaa Grain Analyser

Nebulaa

Nebulaa, has developed a Grain Analyser, called MATT which has the capability to assess each grain from multiple sides thus covering its entire surface, reducing the overall time of testing from 30 minutes, when done manually, to 1 minute. It can assess any morphology character ranging from varietal differences, we eviled to damaged. Nebulaa focus on Paddy, Wheat, Barley, Maize & Pulses. Nebulaa has been awarded India Patent.

Co-Founders: Tanmay Sethi & Mohit Dadhich

Success: The product has been tested across APMC environments for the past one year of Telangana, Uttar Pradesh, Rajasthan, Haryana, Punjab, Chhattisgarh and Andhra Pradesh. More than 18 agriculture commodities can be analyzed by MATT. MATT is also being used by Seed Companies, Feed Companies, Millers, Processors, FMCG Company and State Civil Supplies for the analysis of their raw and processed material.

The NASSCOM CoE-IoT team has been very active in helping us in ways to get new business opportunities. It started with the connection with a Beverage giant where the CoE team introduced the concept of automated testing of input through MATT to the Client. After the first demonstration that we gave at CoE Gurgaon, the team have come up with new ways and ideas for implementing MATT in industry. Post to our first interaction, we have been introduced to a plethora of Industry giants for implementing MATT including Mother Dairy who introduced us to the challenges they face in Mango quality testing and the industry requirements. Along with Carlsberg, we have been connected to Budweiser, R&D.

- Tanmay Sethi

World's first smartphone integrated microscope

Medprime Technologies has built a patent approved, low cost & portable connected microscope that is suitable for diagnostic and research applications. Being a low computing resource solution, it can be integrated with a smartphone or tablet for edge computing capabilities.

It has a redesigned optical system to obtain the same path length in a smaller space without compromising on resolution or magnification. Digitizing microscopy allows images to be sent from one place to another easily for diagnosis & integration with Hospital Information Systems, which coupled with the processing power of phones and tablets, helps Machine Learning powered sample analysis. The device provides an optical magnification of up to 1500X + digital zoom, Product weighs just 3kg and gives up to 15 hours backup and costs Rs 10-20 per test.

Co-Founders: Greeshma Unnikrishnan & Samrat Swami

Success: Key deployments include Bhabha Atomic Research Centre, Mumbai; Department of Health & Family Welfare, Odisha; Lilavati Hospital & Research Centre, Mumbai; AIIMS Nagpur; Kokilaben Dhirubhai Ambani Hospital, Mumbai; ICAR Research Complex for Eastern Region, Patna; L&T Technology Services Ltd; Northern Railway, Lucknow; Dr Rajendra Prasad Central Agricultural University, Pusa; Government Medical College, Aurangabad; Department of Sericulture, Leh; Military base hospital, Barrackpore; National Centre for Cell Science, Pune; National Centre of Cancer Prevention and Research, Delhi; Jawaharlal Nehru Medical College.

medprime

NASSCOM CoE-IoT & AI provides a high-energy and inspiring work environment, not to mention the infinite networking opportunities with other entrepreneurs, mentors, experts and corporates. CoE has a good reach in the corporate sector and utilizes it for the benefit and growth of its startups.

- Greeshma Unnikrishnan

Digital Innovators Meet Up – Setting up the Deeptech startup ecosystem

Gandhinagar CoE launched the "Digital Innovators Meetup", a group of digital technology led start-up leadership team to come together and discuss market trends, current challenges, help needed and collaboration opportunities. The 1st Digital Innovators Meetup was held in Ahmedabad on 3rd Jan at Hotel Marriot. This received a great interest from start-up community as 15+ start-ups working on building solutions with IoT and AI technologies attended the launch event. Shri Sunil Parekh, Senior advisor to Zydus group and FICCI Gujarat Chairman was the special guest and he interacted with founders on a two hour brainstorming session on challenges start-ups are facing and how NASSCOM can help them on their journey. In the roundtable discussion also happened on the opportunities in digitilisation through IoT, AI, Machine Learnings for manufacturing companies.

Post the meetup most of the start-up founders expressed interest to be part of NASSCOM Gandhinagar CoE to get support on their growth plans.

NASSCOM CoE Tech Xchange Program Workshop on 'Thinking Products'

NASSCOM Gandhinagar CoE organised a tech Xchange program on 'Thinking Products' on 9th of January 2020. The program was a hands-on workshop, saw an interactive and learning session for the participants with the expert, Mr Krishan B Chandak, who has 22 years of experience in IT Industry. Mr Chandak in his session talked about how to design a thinking product, what to keep in mind when conceptualising and launching products, and how to engage customers with the developed product. The workshop saw an overwhelming registration by 66 start-ups and eventually attended by nearly 30+ start-up founders, CTOs, Product Managers and UI/UX Developers. Post workshop start-ups had a networking session with Mr Chandak to get advice for their specific products in development.

LHIF 7.0 Hosted in Ahmedabad; Highlights Digital Transformation in Healthcare & Lifesciences

The 7th edition of LHIF was hosted at the Courtyard by Marriott, Ahmedabad, marking its maiden presence in the industrial state of Gujarat. The event was attended by more than 200 people, and marked by government presence as well – where the goal was to nurture a digitally empowered life-sciences & healthcare ecosystem. There were 200+ Participants, 10 Startup Showcases with attendance by 7 Key Govt Officials from Gujarat and 75+ Organisations. Shri Jaiprakash Shivahare, Commissioner of Health, Gujarat, Shri Sachin Gusia, MD of Gujarat Informatics Ltd., Samir Desai, President – Biologics, Zydus Cadila, Sunil Parekh, Co-Chair, FICCI Gujarat State Council were the special keynote speakers. Panel discussions were held on topics like Digital Transformation in the Prevention and Control of NCDs in India & Digital Adoption Opportunities in Healthcare, with a special presentation made by LTI on digital transformation in the Pharma Industry.

Shri Hareet Shukla IAS, Secretary Department of Science & Technology Gujarat visits Gandhinagar CoE

NASSCOM CoE had the pleasure of hosting Shri Hareet Shukla ISA - Secretary DST Gujarat, Shri Sachin Gusia - MD GIL, Dr Sudhir Jain – Director IIT Gandhinagar and Industry leaders from Gujarat at the Gandhinagar center on 22nd Jan 20. During the visit they reviewed the progress made & 2020 plans of Gandhinagar CoE and appreciated the work CoE has done in a short time to connect with industries and start-ups. Post the review meeting Shri Hareet Shukla Ji and other leaders interacted with nine start-ups who presented the solutions they have developed for industries.

NASSCOM Gandhinagar CoE launches startup mentoring program "Samvaad"

Start-ups, especially who are in early stages of their journey needs regular guidance and support. Gandhinagar CoE rolled out "Samvaad", a formal mentoring program for the start-ups under which dedicated sessions are planned to help them on building product roadmap, Business & Go-to-Market strategy and setting up execution processes. Start-ups find this valuable as it helps them on business skills that are very much needed along with technology development skills.

> "Our Marketing Strategy was a lot focused on a narrow solution offering and thus Samvaad helped us find us what we actually wanted to achieve, Thus as on today our solution offering has come from Samvaad which is our elevator pitch intro of who we are"
>
> **Suraj Rajan, CEO - Alluvium**

Suraj Rajan
CEO – Alluvium

Fusion 4.0 – Platform to bring together start-ups and Industries

Forum Uniting Start-up and Industry On New technologies (FUSION 4.0) was launched with an objective of connecting start-ups with Industries to understand their challenges and discuss opportunities to co-innovate to help addressing them with digital solutions. First FUSION 4.0 event was organised on 29th Feb at JK Lakshmi Cement Ltd Kalol plant near Ahmedabad. The program started with the welcome note and team introduction by Shri Naveen Sharma, SVP, JKLC, followed by the FUSION 4.0 introduction by **Shri Amit Saluja, Sr. Director & Center Head, NASSCOM CoE Gandhinagar. The key members from JKLC included –Shri Krishan Mittal, VP IT (Sirohi plant), Shri Rajesh Kumar Singh, VP IT (Head Office Delhi), Shri Mukul Shrivastava, VP Engineering (Durg), Shri SK Saxena, Sr VP (Jhajjar plant), Shri Deepak Sharma, Sr GM, Instrumentation (Durg plant)**. Senior Leaders, Plant and Functional Heads from all JKLC plants who couldn't attend in person attended through virtual conference

A total of 30 industry members from 10 start-ups, NASSCOM and JKLC Kalol team were present in the meetup along with 30+ members from JKLC other plants through virtual conference. Start-ups that participated were from different technology and domain areas, including AR/VR, AI/ML, IOT and Analytics. All the start-ups who participated had a ready solutions and experience of working in Industry on POC projects. JKLC team was very excited to witness diversity of solutions presented by the start-ups and expressed interest in collaborating with them for doing POCs on the challenges that were identified through the design thinking workshop organized by NASSCOM CoE in December. All the start-ups were advised to share their proposals, in a week's time 6 start-ups submitted their proposals for the 4 use cases identified as part of phase –I implementation plan.

JKLC team is reviewing the proposals and work orders will be released soon once the situation due to covid-19 improves.

NASSCOM Gandhinagar CoE launches start-up acceleration program

NASSCOM Gandhinagar CoE launched new program "Start-up Acceleration Program" for the matured start-ups to help them get to scale through technology led innovation and business mentoring focus. This program is designed for specific needs of the start-ups who have a commercial product & paid customers and looking for support in accelerating their growth. As part of the program CoE will help start-ups by enhancing their technical capabilities and business skills through regular mentoring and technology workshops on Industry use cases. CoE will also host events that will create opportunities for start-ups to connect with industry leaders and venture capitalists.

This program is in addition to existing Incubation program that is for the start-ups in product development stage and looking for infrastructure support to operate and build products.
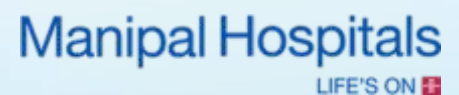
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