



# STARTUPEXHIBIT WORKSHOP 3

10th June 2021, 10.30 AM – 4.30 PM



Karnataka Innovation & Technology Society

Department of Electronics, IT & Bt,  
Government of Karnataka

## Contents

Workshop Brief: .....	2
Workshop Agenda: .....	2
Workshop Overview: .....	3
Workshop Outcome:.....	17
Role of Startup Karnataka: .....	18
Snapshots from the Workshop: .....	18

## Workshop 3

### Workshop Brief:

<b>Workshop Name:</b>	<b>StartupExhibit Demo Day – Workshop 3</b>
<b>Stakeholders:</b>	<ol style="list-style-type: none"> <li>1. Department of Animal husbandry and Fisheries, Government of Karnataka</li> <li>2. Higher Education Department, Government of Karnataka</li> </ol>
<b>Date:</b>	10 <sup>th</sup> June 2021
<b>Venue:</b>	Virtual Platform
<b>Duration of Event:</b>	10.30 AM – 4.30 PM
<b>No. of Participants:</b>	20 Startups

### Workshop Agenda:

The StartupExhibit Demo Day Workshop was designed and implemented with the soul objective of connecting Startups with Government Departments and providing them with an opportunity to showcase their innovations. The detailed agenda for the Workshop is shown below:-

TIME	TOPIC	SPEAKER / PRESENTER
<b>Morning Session (10:30 AM – 1:00 PM)</b>		
10:30 AM – 10:45 AM	Welcome Address	Dr. E.V. Ramana Reddy, IAS, Additional Chief Secretary, Department of Electronics, IT, Bt & ST, Government of Karnataka
10:50 AM – 11:00 AM	Pitch Presentation	Agverse Technologies Pvt. Ltd.
11:00 AM – 11:10 AM	Pitch Presentation	Chemlife Innovations
11:10 AM – 11:20 AM	Pitch Presentation	Happy Farmer Labs
11:20 AM – 11:30 AM	Pitch Presentation	Hydrogreens Agri Solutions
11:30 AM – 11:40 AM	Pitch Presentation	SensiWise Solutions Private Limited
11:40 AM – 11:50 AM	<b>Break</b>	
11:50 AM – 12:00 Noon	Pitch Presentation	VNIR Biotechnologies Pvt Ltd
12:00 Noon – 12:10 PM	Pitch Presentation	Magnimous Info Tech Pvt Ltd
12:10 PM – 12:20 PM	Pitch Presentation	Blackfrog Technologies Private Limited

## Workshop 3

12:20 PM – 12:30 PM	Pitch Presentation	Biotherm Flavours and Fragrances LLP
12:30 PM – 12:40 PM	Pitch Presentation	Bioeco Solutions
<b>Afternoon Session (2:30 PM – 4:30 PM)</b>		
2:30 PM – 2:40 PM	Pitch Presentation	xe3 Edubioskills Solutions Pvt Ltd
2:40 PM – 2:50 PM	Pitch Presentation	RobotGuru Education Technologies Pvt Ltd
2:50 PM – 3:00 PM	Pitch Presentation	Snehix Tech Private Limited
3:00 PM – 3:10 PM	Pitch Presentation	Kotumb
3:10 PM – 3:20 PM	Pitch Presentation	MountBlue Technologies Private Limited
3:20 PM – 3:30 PM	<b>Break</b>	
3:30 PM – 3:40 PM	Pitch Presentation	GoDhiyo Solutions (Dhiyo) Pvt Ltd
3:40 PM – 3:50 PM	Pitch Presentation	Cocoslabs Innovative Solutions Pvt Ltd
3:50 PM – 4:00 PM	Pitch Presentation	CrossForge Solutions Private Limited
4:00 PM – 4:10 PM	Pitch Presentation	Kalpas Innovation Private Limited
4:10 PM – 4:20 PM	Pitch Presentation	Kanaada Phonetics
4:20 PM – 4:30 PM	Vote of Thanks	Smt. Meena Nagaraj C.N., IAS, Director, Department of Electronics, IT, Bt and Managing Director, KITS

### Workshop Overview:

#### Objective:

The Department of Electronics, IT & Bt, Government of Karnataka, being the nodal Department for Startups in the State, conducted a series of StartupExhibit Demo Day Workshops for home grown Startups to showcase their innovations to State Government Department stakeholders. The objective of this workshop was to create a bridge connecting s Startups with other State Government Departments and showcase their innovations for getting pilot / market access opportunities. The Demo Day would provide a platform to Startups to exhibit their innovations

## Workshop 3

and showcase the benefits they're offering. The Demo Day would also allow the Startups to show how to handle at least one particular use case in a realistic way. Finally, the Demo Day offers an opportunity to the Startup to sell their story to Government stakeholders.

### Welcome Address:

The workshop began with the welcome address by Dr. E.V. Ramana Reddy, IAS, Additional Chief Secretary, Department of IT, BT & ST, Government of Karnataka, who is also the Nodal officer for Startups in the State. Dr. E.V. Ramana Reddy apprised the audience on how the state of Karnataka has always cherished its leadership position, both on the domestic as well as on the global map of Entrepreneurship and Innovation and is taking several initiatives to continue to be a leader. India's landlocked southern city of Bengaluru has emerged as the country's technology capital. Dr. E.V. Ramana Reddy also provided a brief synopsis of the support provided by Karnataka for strengthening the Startup ecosystem. Dr. E.V. Ramana Reddy encouraged the participants to make the most out of the workshop by understanding the role of Startups and their contribution in building a self-reliant India.

### Pitching by Startups:

1. Agverse Technologies Pvt. Ltd. –

Website / URL – <https://agverse.in/>

### Innovation Overview –

Agverse has built 3 products to increase profitability of dairy farmers.

- 1) gAi - Gun for artificial insemination with intelligence ensures precise placement of semen. Artificial intelligence driven guidance to ensure correct procedure
- 2) gauFit - Body sensor bands powered by a machine learning engine, heat detection, real time health monitoring, feed requirement,
- 3) gauCloud - Cloud based artificial intelligence service for dairy management, data warehousing, mining & recommendations.

### Innovation Snapshot –


Workshop 3

**Intelligent AI Gun – gAi™**

gAi or a "Gun for AI with Intelligence" is our first product. It is an advanced AI gun with a built in video endoscope. The gAi assists veterinarians and para-veterinarians with a real time view to enable a perfect AI procedure.

**Benefits**

- Increases AI Success Rates
- Reduces cost of AI Programs
- Integral design, Easy Setup and Start up
- Small, Portable & Effective design offers best visualization of orifices in farm animals
- Strong, Durable design to endure even the most difficult anatomy
- Single Hand Operation



2. Chemlife Innovations –

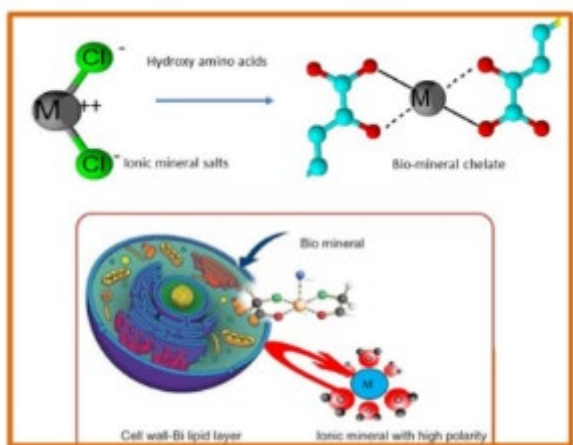
Website / URL – <https://www.chemlifeinnovations.com>

**Innovation Overview –**


Chemlife has developed two products for adding bio-available nutrients in fodder-based diet. ChemBmin Dairy: **It is a novel hydroxyl amino acid based chelated trace mineral premix, making minerals stable and highly bioavailable, compared to other organic trace minerals available in the market.**

CowStaw Laddu: **It is a fodder based diet will be low in intestine digestible saccharides required for lactation. They have transformed paddy straw – having non-digestible cellulose to intestine digestible saccharides along with balancing nutrients to make highly palatable laddu to assure better quality & quantity of milk production.**

**Innovation Snapshot –**



Cell wall-Bi lipid layer      Ionic mineral with high polarity



**Workshop 3**

3. Happy Farmer Labs –

**Website / URL –** <https://www.facebook.com/pages/category/Product-Service/Happy-Farmer-Labs-607640746291634/>

**Innovation Overview –**

Happy Farmer Labs is a social innovation that aims to benefit farmers as much as consumers through efficient use of technology. They provide solutions for organizations that are associated with milk procurement and the its allied and extension services. Happy Farmers help in executing these processes in an organized, cost-effective and efficient manner.

**Innovation Snapshot –**



4. Hydrogreens Agri Solutions –

**Website / URL –** [www.hydrogreenfodder.com](http://www.hydrogreenfodder.com)

**Innovation Overview –**

Hydrogreens has built a solar powered, climate controlled vertical farming systems called “Kambali”. This innovation allows growing of 20 to 30 Kgs of high protein fodder everyday with just a bucket of water, even in extreme summer-climate conditions. Same system could be used to grow nursery plants or short medicinal plants during monsoon, and oyster mushrooms during winter.

**Innovation Snapshot –**

Item	V2
Smart technology based Anti-Fungal virgin HDPE Trays, 1.3 ft x 2 Ft	32
Solar Panel	✓
Charge-Router	✓
UPoK Batteries	✓
Auto LED timer	✓
High pressure Pump	3
Multipurpose Kambali Halls	3
Multipurpose Nursery trays	32

## Workshop 3

## 5. SensiWise Solutions Private Limited –

**Website / URL** – <https://www.sensiwise.com/wp/>

**Innovation Overview –**

SensiWise has created iTREATS (Ice cream Trikes Revenue Enhancement & Tracking Solution) which not only provides brands visibility into trikes utilization & on-field deployment, but also empowers them to monitor, influence & enhance revenue generation to the tune of 7.5-10%. Brands can also link payments of their trade sales and associated incentives and rewards to verifiable field-activity data rather than using overstated manual data.

**Innovation Snapshot –**

The image shows a hand holding a smartphone displaying the SensiWise logo and the tagline 'EMPOWERING BUSINESS'. The background features various IoT-related icons like a cloud, a truck, a coffee cup, and a factory. To the right, there is a section titled 'Our Products' with three columns: 'Sensor Node', 'Gateway', and 'IoT Platform & Apps'. The 'Sensor Node' column contains a list of features:

- ✓ Modular, remotely configurable & stackable design allows provision of desired sensors based on customer requirement
- ✓ Supports location, temperature, humidity, pressure, vibration, light & other custom sensors
- ✓ Optimized for LPWAN using LoRa proprietary Private Network; supports both Sub 1GHz & 2.4 GHz communication with RF Star and Mesh technology
- ✓ On-the-fly provisioning & commissioning; auto discovery & joining process with the Gateway
- ✓ Secured & encrypted communication with the Gateway
- ✓ Supports Edge Analytics with custom Algorithms to monitor critical parameters
- ✓ Bi-Directional communication with gateway
- ✓ Capability to operate in a temperature range from -30°C to 60°C

## 6. VNIR Biotechnologies Pvt. Ltd. –

**Website / URL** – <https://vnir.life/>

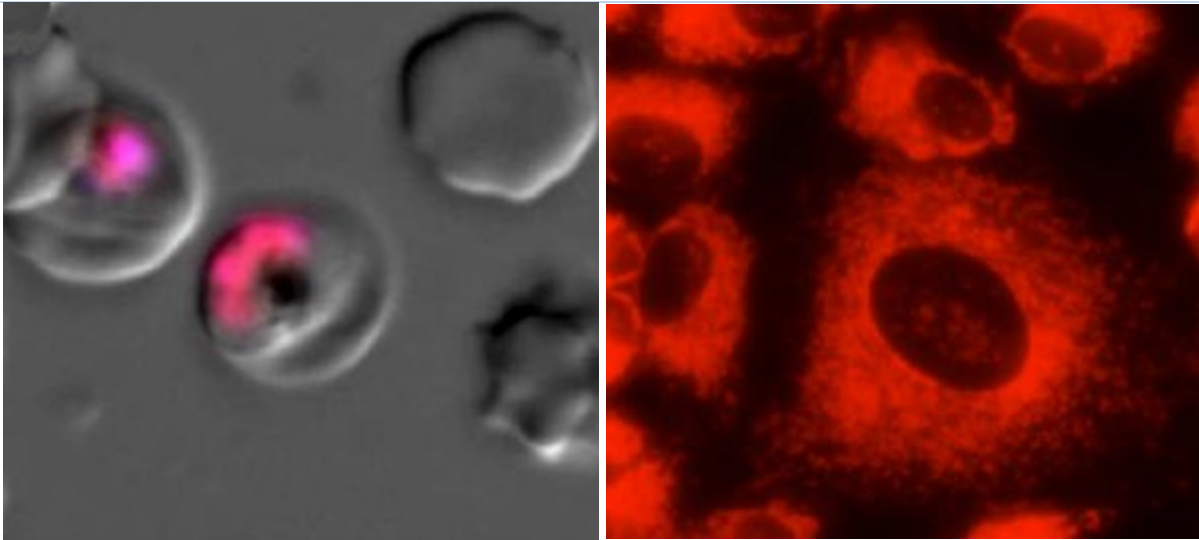
**Innovation Overview –**

VNIR Biotechnologies is using its expertise in chemistry, nanobiotechnology and fluorescence to develop point-of-care devices for rapid blood analysis in cattle. They target to provide specific, sensitive, cheap, rapid diagnostics for all livestock globally. Where expert opinion is required, the technologies will be supplemented by a telemedicine platform.

**Innovation Snapshot –**



Workshop 3



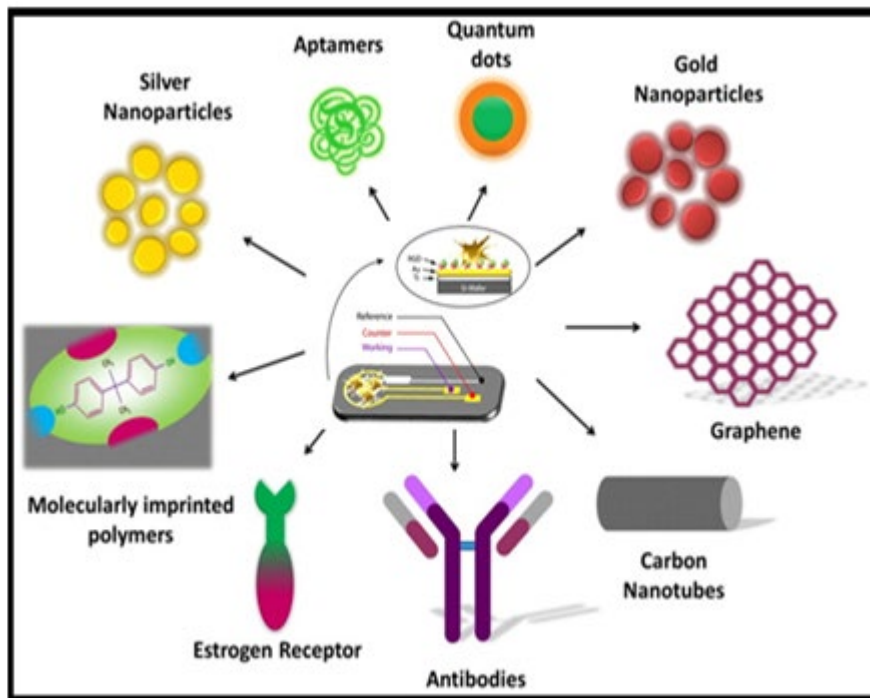
7. Magnimous Info Tech Pvt Ltd –

Website / URL – <https://www.magnimous.com/>

**Innovation Overview –**

Magnimous with its innovation is working towards early stage disease detection in dairy cattles.

**Innovation Snapshot –**



## Workshop 3

## 8. Blackfrog Technologies Private Limited –

Website / URL – [www.blackfrog.in](http://www.blackfrog.in)

**Innovation Overview –**

Blackfrog's innovation Emvólio is a portable active cooling (battery-powered) device that will provide a platform for delivery of vaccines and all other biologicals which require to be kept strictly between 2°C - 8°C for up to 12 hours in the field. Emvólio's 2-liter capacity enables it to carry 30-50 vials, which is standard for a daylong immunization campaign. Furthermore, device capabilities include continuous temperature monitoring, location tracking, state-of-charge indication, communication with headquarters via live tracking, & vital statistics for improved coverage.

**Innovation Snapshot –**

## 9. Biotherm Flavours and Fragrances LLP –

Website / URL – <http://biothermfragrances.com/>

**Innovation Overview –**

Biotherm is building their innovation around Black Soldier Fly Larvae (BSFL) which are very good source of protein, lipid and antioxidant as feed for poultry and aquaculture. BSFL are complete in nutritional and health supplements with right ratio of amino acid. BSFL is an optimum insect meal and can be good replacement to fish/soymeal used in this sector.

**Innovation Snapshot –**

Workshop 3

**NOVELTY/USP**

- Pathogens specific to avian disease and transmittable to humans will be selected – Salmonella & E.coli or other virulent strains
- BSFL will be exposed to pathogenic microorganism in poultry which develops AMPs for the virulent stains.
- These BSFL can be fed directly to poultry or the AMPs can be extracted as anti bacterial peptides for commercial use.

The diagram illustrates the process of developing Anti-Microbial Peptides (AMPs) in Black Soldier Fly Larvae (BSFL). It starts with BSFL being exposed to E. coli and Salmonella. The larvae then develop AMPs, which are shown as various peptides like Nucleosides, Geranyl, and others. These AMPs are effective against E. coli, Salmonella, and Gram-positive bacteria. The final product is BSFL with AMPs for E. coli & Salmonella.

10. Bioeco Solutions –

**Website / URL –** <http://bioeco.uxgurus.co/index.html>

**Innovation Overview –**

This Startup is working towards developing better local strains of microbes and are currently working on a consortium of phototrophic bacteria. They are easy to store as they are viable in presence or absence of oxygen. These microbes are efficient consumer of NH3 and H2S and grow. The multiplication rate is around  $4 \times 10^9$  CFU/ml upon 48 hours of incubation. The cost is relatively low as it is produced within the country. Microbes, having nearly 65% crude protein content and with presence of 18 amino, acids can increase growth in fish and shrimp as direct food also.

**Innovation Snapshot –**

The snapshot shows two types of infestation on fish: Argulus Infestation (top) and Iernaea Infestation (bottom). Each is illustrated with a circular image of the fish and a corresponding circular image of the infesting organism.

11. xe3 Edubioskills Solutions Pvt Ltd –

**Website / URL –** <https://edubioskills.com/>

**Innovation Overview –**

## Workshop 3

This Startup is developing a series of products named bioBox™. These are physical kits with reagents/consumables & e-learning as well as evaluation modules for each kit. These kits are for learning/training and offer a set of 10 basic & 10 advanced BioLab skills for UG/PG students & early career professionals from a range of organizations like Educational/R&D institutions, Biotech Industries to diagnostic Labs. The training bioBoxes are for practicing the skill sets based on comprehensive learning through their e-learning portal & the assessment tools provided to evaluate the proficiency skills sets being acquired.

**Innovation Snapshot –**

12. RobotGuru Education Technologies Pvt Ltd –

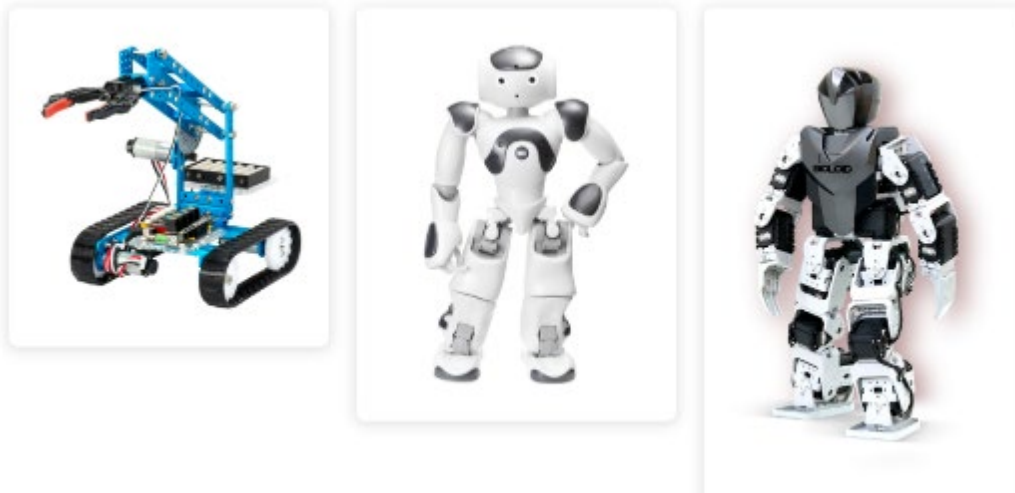
**Website / URL –** <http://robotguru.net/> & <https://www.holosuit.com/>

**Innovation Overview –**

RobotGuru is a novel initiative which seeks to teach robotics in an integrated manner by interweaving hardware and software using Virtual Reality (VR). It is a new avenue to help practical education for inventors and enable model of “Learn by experience”. As we all move from traditional means of teaching to more evolved concept of learning a concept to feeling, RobotGuru is revolutionizing the conventional methods of teaching and learning. An innovative method of training which helps to discover, develop and nurture skills using XR. The solution can virtualize the entire skills training modules into 3D interactive Virtual Reality (VR) and Augmented Reality (AR) modules. It allows students to explore, interact, experience and be involved.

**Innovation Snapshot –**

**Workshop 3**



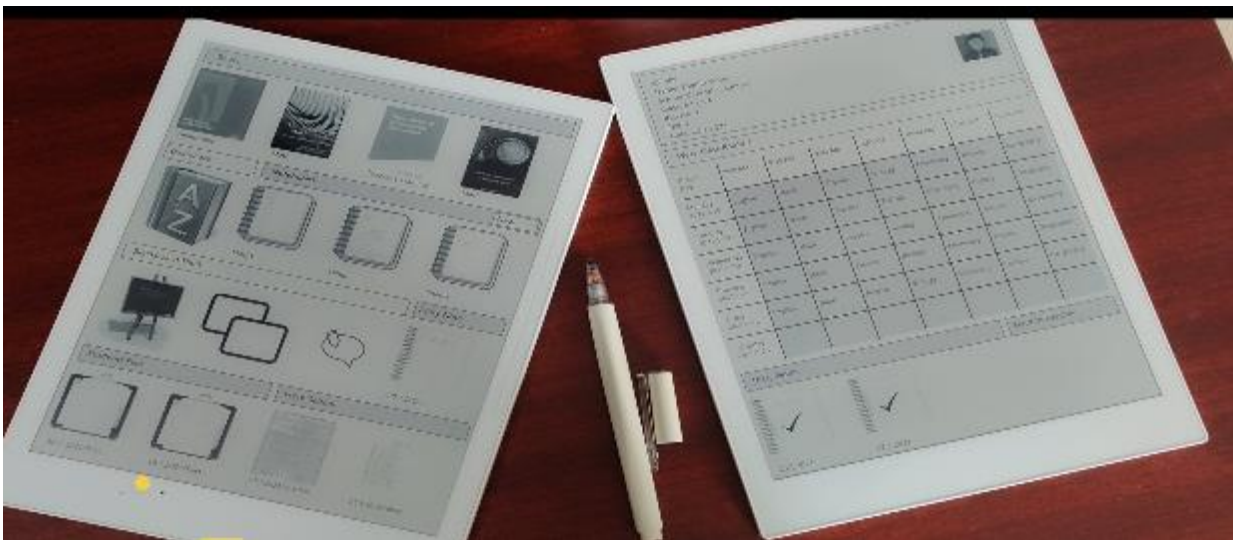
13. Snehix Tech Private Limited –

**Website / URL –** <https://www.snehix.com>

**Innovation Overview –**

Snehix’s is reimagining the traditional system of printed books and notebooks to usher in the new digital era of multi-functional unified e-book and e-notebook devices. Snehix’s Blackboard software, integrates e-books using cloud technologies, thus enabling seamless interaction between student and teacher, school and parents, and even book publishers with readers.

**Innovation Snapshot –**





## 14. Kotumb –

**Website / URL** – <https://kotumb.com/>

**Innovation Overview –**

Kotumb has built a professional networking app which enables youth to meet and interact with like-minded youth and professionals, seek support and guidance from mentors/ experts, be digitally noticeable to the hiring world. Kotumb is a multi-utility professional networking app that is helping the user to connect with people of different interest. At Kotumb they aspire to provide information about opportunities and contacts.

**Innovation Snapshot –**

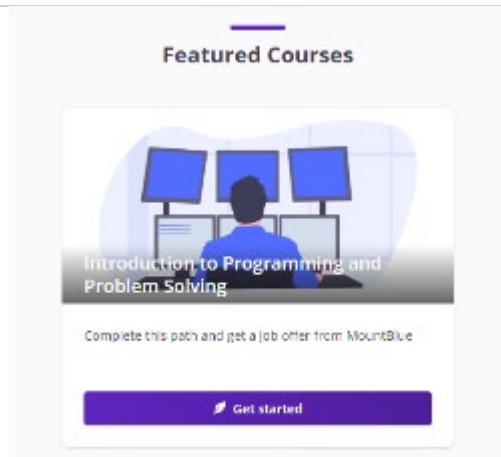
## 15. MountBlue Technologies Private Limited –

**Website / URL** – <https://www.mountblue.io/>

**Innovation Overview –**

MountBlue has created a code school that prepares employable techies. They work closely with high growth ventures to solve their entry level tech hiring.

**Innovation Snapshot –**



16. GoDhiyo Solutions (Dhiyo) Pvt. Ltd. –

Website / URL – <https://www.dhiyo.ai/en/>

**Innovation Overview –**

GoDhiyo’s solution improves employability by enabling, empowering and engaging users in “Bharath” by helping them build their digital profile (resume) and discover gainful jobs in a simple-intuitive way without any dependency on middle-men - all powered by Vernacular Voice.

**Innovation Snapshot –**



## Workshop 3

17. Cocoslabs Innovative Solutions Pvt Ltd –

**Website / URL** – <https://pixuate.com/>

**Innovation Overview –**

Cocoslabs innovation Pixuate is a recognition engine with face recognition and license plate recognition capabilities. The algorithm uses deep neural networks and machine learning which is fully developed by the team. The technology is able to detect object of interest, capture and recognize the details in real-time, with very high accuracy. Pixuate is able to achieve 99.9% accuracy in license plate recognition for Indian number plates, which includes recognition of the license plates of two- wheelers as well.

**Innovation Snapshot –**

18. CrossForge Solutions Pvt. Ltd.–

**Website / URL** – <https://www.legitdoc.com/>

**Innovation Overview –**

LegitDoc is the solution developed by CrossForge solutions Pvt. Ltd., a blockchain based Startup, to solve the problem of forgery of documents (Marks cards, university certificates, insurance papers, permits, invoices, land records etc.) using public blockchain technology. Using LegitDoc, any authorities such as universities can issue documents (ex. marks cards), whose authenticity can be verified publicly within 10 seconds, at free of cost, from anywhere around the world, by a simple drag and drop of the document on an open source portal.

**Innovation Snapshot –**



Workshop 3



19. Kalpas Innovation Private Limited –

Website / URL – <https://kalpas.in/>

**Innovation Overview –**

Kalpas is building One-Stop-Solution for students planning their career. Their solution gathers all the available data and take preliminary assessments to build profile of the student . Data will be filtered and run through algorithms to generate strength map. Using their proprietary algorithms, provide personalized career plan.

**Innovation Snapshot –**

**Strength and Career Compatibility Tool**  
Assess your strengths with a few quick tests. Get your results reviewed from industry experts and counselors.

**AI Driven Career Roadmap generator**  
Personalized career pathways that suit you best with customizable milestones and preparation help with course and career compatibility and future demand analysis.

**State & National level College Application Platform**  
With each state conducting an exam along with the already existing national level exams, its easy to lose track of your goals. One platform to track them all.

**Minimum Effort**

Option1 Weak

Bar chart showing performance levels for Option1.

## Workshop 3

## 20. Kanaada Phonetics –

Website / URL – <https://ka-naada.com/>

**Innovation Overview –**

Ka-Naada is a unique patented keyboard layout design for Indic languages used in keyboards for language education using computer aided teaching for India, Nepal, Sri Lanka, Myanmar, and Thailand. This facilitates teaching of Kannada, Samskrutam or any of the Indic languages (with scripts based on Brahmi Lipi) features, without clutter and overload of English language feature of 'spelling'. Ka-Naada is a USB Keyboard and generates language appropriate Unicode compliant character code, as direct input to the applications.

**Innovation Snapshot –****Vote of Thanks:**

The workshop concluded with the Vote of Thanks presented by Smt. Meena Nagaraj C.N., IAS, Director, Department of Electronics, IT, Bt and Managing Director, KITS. The participating Departments were enthralled by the level of innovation brought in by the home-grown Startups. They were eager on collaborating with some of them and also enable pilot opportunities to few of the deserving ones.

**Workshop Outcome:**

The StartupExhibit Demo Day Workshop provided the home-grown Startups a platform to showcase and get validation of their innovation from various State Government Departments. Some of the key takeaways from the workshop are listed below:-

- The Startups were able to pitch their innovation and correlate with the requirements or problem statements addressed by concerned State Government Departments.
- The Startups were able to validate their innovations, as well as received valuable expert advice in some cases from the senior officials of State Government Departments.
- Few of the Startups were approached on collaborating and working with some of the Departments.

**Workshop 3**

**Role of Startup Karnataka:**

Department of Electronics, IT, Bt being the Nodal Department for Startups in the State have played a key role in designing, coordinating, implementing, and hosting the StartupExhibit Demo Day workshop.

**Snapshots from the Workshop:**

