

EVENT REPORT



Aatmanirbhar Bharat Hackathon

9th July 2020 - 10th July 2020

Organized by

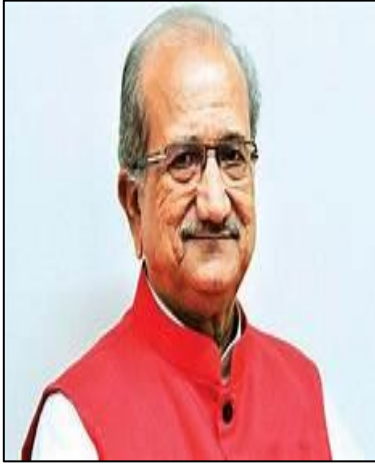
**Birla Vishvakarma Mahavidyalaya
Engineering College**



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Acknowledgement



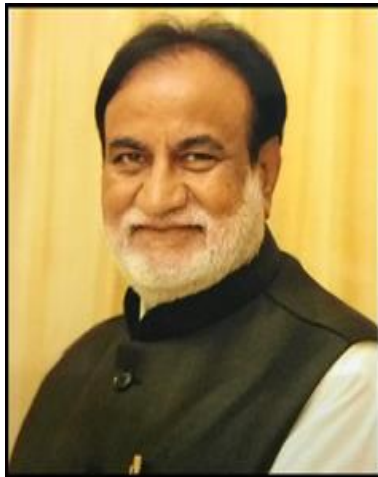
**Shri Bhupendrasinh
Chudasama
Education Minister
Govt. of Gujarat**



**Mrs. Anju Sharma – IAS
Officer, Principal
Secretary, Higher &
Technical Education,
Govt. of Gujarat**



**Prof. (Dr.) PM Khodke -
Central Project Advisor
NPIU**



**Er. Bhikhubhai Patel – Chairman
Charutar Vidya Mandal**



**Dr. Indrajit Patel – Principal
BVM Engineering College**

Acknowledgment

The event **Aatmanirbhar Bharat Hackathon** was impossible for us without the efforts and valuable inputs from college and faculties. We are here extending our great acknowledgment and appreciation to the following persons with their memorial inputs that are very significant in making this event possible.

We are thankful to **Er. Bhikhubhai Patel (Chairman - Charutar Vidya Mandal)** who has constantly motivated and supported us to conduct various events and inculcate knowledge amongst the youth, especially in this time of the pandemic.

Next and the acknowledged **Dr. Indrajit Patel (Principal, BVM Engineering College) and all Head of the Departments** who have been very supportive to us, always ready for solving problem-related to events and conclude it.

We also acknowledge coordinators of the event **Dr. S D Dhiman, Dr. B C Goradiya & Dr. R C Rana** who have been giving tremendous opportunity for organizing the event by their professional and Academic guidance, fairness, and responsiveness to kind of queries also remains them as a role model, therefore we are extending our gratitude to them.

Lastly thanks to the hardworking organizing team for sparing their valuable time and make the event possible during the pandemic.



Our Partners

We are expressing the gratitude towards our academic partners for their support. Without them the event would not have been possible.

Our partners are:

Student Start-up Innovation Policy (SSIP)

The government of Gujarat has developed a policy for assisting Start-ups/ Innovation. Under this scheme, any individual/ group of individuals having innovative ideas/Concepts will be eligible, and/ or Universities/ education institutions, Incubation Centre/ PSUs/ R&D Institutions/ Private and other establishments will be eligible as an institution to support and mentor to innovators as approved by Committee. Start-up's in an economy's technology sectors is an important indicator of technological performance for several reasons.

National Project Implementation Unit (NPIU)

National Project Implementation Unit (NPIU) is a unit of Ministry of Human Resource Development, Government of India, established in August 1990 for coordination, facilitation, monitoring, and guide to the States/Institutions in all aspects of the projects. Andaman & Nicobar Islands and Puducherry. The success of three Technician Education Projects encouraged the Govt. of India to seek similar financial assistance from the World Bank, NPIU implemented three Technician Education Projects of Government of India assisted by the World Bank, which helped to strengthen and upgrade the Technician Education System and benefited 552 polytechnics in 27 States including UTs of education.

Ministry of Human Resource Development (MHRD)

The Ministry of Human Resource Development, formerly Ministry of Education (until 25 September 1985), is responsible for the development of human resources in India. The Ministry is held currently by Ramesh Pokhriyal and is divided into two departments: The Department of School Education and Literacy, which deals with primary, secondary and higher secondary education, adult education and literacy, and the Department of Higher Education, which deals with a university education, technical education, scholarship, etc. The erstwhile Ministry of Education now functions under these two departments, as of 26 September 1985.



Institutional Partners



Industry & Start-up Eco system Partners



About Aatmanirbhar Bharat Hackathon

This hackathon is based on the theme of “Aatmanirbhar Bharat”. In this time of the pandemic, two major communities of our college, SSIP, and TEQIP-III are planning for an Online Hackathon named “Aatmanirbhar Bharat Hackathon”. This event is based on the concept of Today's problem will bring tomorrow's innovation. The main aim behind this event is to unleash one's creativity by providing them a perfect platform. More than 400 teams participated in the Hackathon from all over India. This Hackathon Contains different domains of General Purpose and is related to the theme of "Aatmanirbhar Bharat". Winners will get rewards worth ₹ 2 Lakhs.

Tracks for Aatmanirbhar Bharat Hackathon



Technology

- Defence
- BlockChain
- Renewable Energy
- Artificial Intelligence
- Machine Learning
- Data Science



E-Governance & Education

- Police Force
- Educational Reforms
- Social Impact



Medicine & Health

- Children Health Care
- Pharmacy
- Health Care



Business Markets

- Start-Up Management
- Finance
- Freelancing



Agriculture & Climate

- Farming Solutions
- Weather Forecasting
- Agricultural Logistics

Outcomes: Aatmanirbhar Bharat Hackathon



- The event helped each team to give exposure to their ideas so that they can come to know about the drawbacks in their ideas and can overcome that before final draft.
- The winning teams as well as the Special Mentioned teams have been offered to provide startup related support and mentorship
- Our experts also gave their valuable suggestions for the betterment of each project and guided them on how they can improve their product so that it is ready to face the competition in the market. Experts are also interested to mentor some of the ideas personally.
- Multiple Industries showed willingness to collaborate with Birla Vishvakarma Mahavidyalaya
- **“Innovation will lead our nation towards becoming Self-Reliant: AATMANIRBHAR”** was the main idea behind the complete event and it was achieved by the combined efforts of the Team
- Overall, the event nurtured the potential and gave all the participants a platform to showcase their innovative ideas & projects and improve further to achieve heights of success in this competitive world.

Inauguration Ceremony

The Inaugural Ceremony of **Aatmanirbhar Bharat Hackathon** was hosted by **Dr. Zankhana Shah**, Birla Vishvakarma Mahavidyalaya. The ceremony started with a warm welcome to the chief guests and dignitaries of the program – **Hon. Secretary, Dr. SG Patel, Charutar Vidya Mandal, Prof. (Dr.) PM Khodke, Central Project Advisor NPIU, Chief Guest Mr. Tejas Vaghela, Chief Technology Officer at SLS Pvt. Ltd., Mr. Bhaskar Trivedi, Senior Director and Embedded Head at Perfect VIP's and Dr. Indrajit Patel, Principal - Birla Vishvakarma Mahavidyalaya**. The occasion was graced by beginning with a prayer to goddess Saraswati.

Dr. Indrajit Patel, Principal – BVM Engineering College, welcomed the dignitaries and participants. Addressing the ceremony, he described the followed practices and strategies at BVM with present and future aspects. He also gave an overview of the ongoing projects and the talent of the youth of this nation having innovative ideas. He wished for the success of the event and congratulated the organizing team for such a value-adding event and for being an active participant in several government events.

Dr. SG Patel, Hon. Secretary Charutar Vidya Mandal, thanked all the dignitaries, officials and academics leaders for conducting the hackathon. He also thanked the students for their participation. He conveyed his best wishes for the success of the program and the solutions put forward by the students have a positive discussion and impact on society. He concluded by praying to the Almighty to bless everyone.

Dr. PM Khodke, Central Project Advisor, NPIU talked about the main aim of the event, to provide a platform for students who want to contribute towards nation-building. He expressed how the domains of the hackathon have great potential in human society. He addressed the efforts made by the government and MHRD to promote online education and positive points of e-learning. He emphasized on how the colleges funded under TEQIP-III program have great startup initiatives and research prospectus. He concluded by thanking all the dignitaries and officials for organizing such a great event.

Mr. Tejas Vaghela, Chief Technology Officer, SLS Pvt. Ltd. discussed on Aatmanirbhar Bharat as a campaign started by the country and how the mentors should shape the vision of their students to works towards contributing to their nation. He also talked about the global supply chain and how it does not mean to cut off relations with other countries.

Mr. Bhaskar Trivedi, Senior Director and Embedded Head at Perfect VIP's expressed his gratitude to all those who participated. He insisted on close industry and academic tie-ups and Innovation centers in college to promote innovation and ideas among students which will lead to close interaction with industry and thereby create employment opportunities.

Dr. B C Goradiya, Event Coordinator shared the main objectives of the hackathon and its need. He thanked all participants for their participation and hard work. He discussed the Number

of teams in each of the described domains. He described how the participants came up with solutions and wished it would bring us a step closer to being “Aatmanirbhar”. In the end, he wished them the best of luck.

In conclusion, **Dr. R C Rana, Event Coordinator** offered a vote of thanks to the guests for gracing the ceremony by their solemn presence. He wished and congratulated the faculty as well as the student team for organizing this event under the concept “Aatmanirbhar Bharat”.

Glimpses of the Inauguration Ceremony



Event Details

After successful completion of the inauguration ceremony, all the participated teams were asked to begin their amazing projects towards Self-reliant India. All the teams were highly motivated towards enhancing their skills and executing their projects as perfectly as possible.

On **9th July 2020**, for the primary evaluation round the teams were divided according to their domain, and moderators were allotted for every session to have smooth functioning of interaction between expert and team. Moderators have to call every team in their respective sessions one by one according to the prescribed order. The meeting held between experts and the team regarding the progress of their project. All the teams had kindly expressed their progress and their expected outcome.

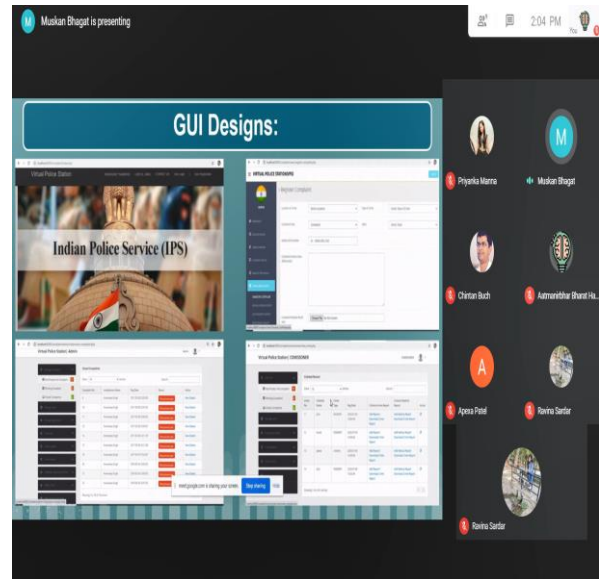
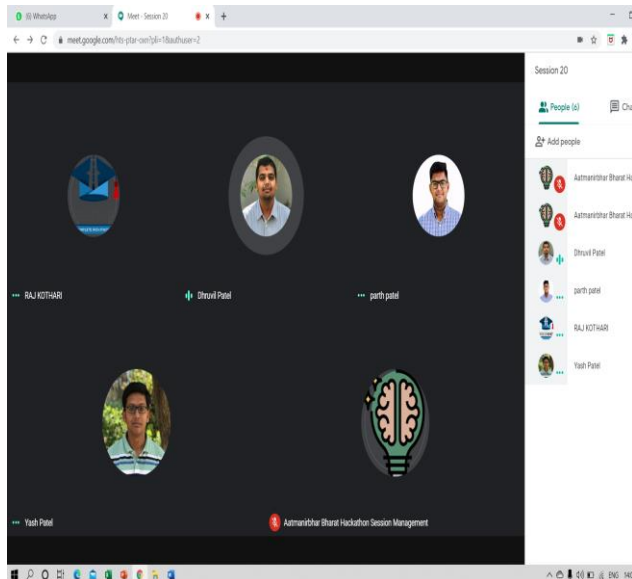
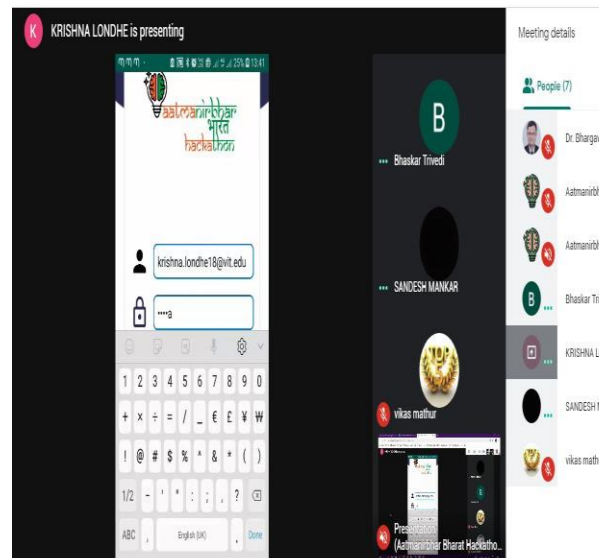
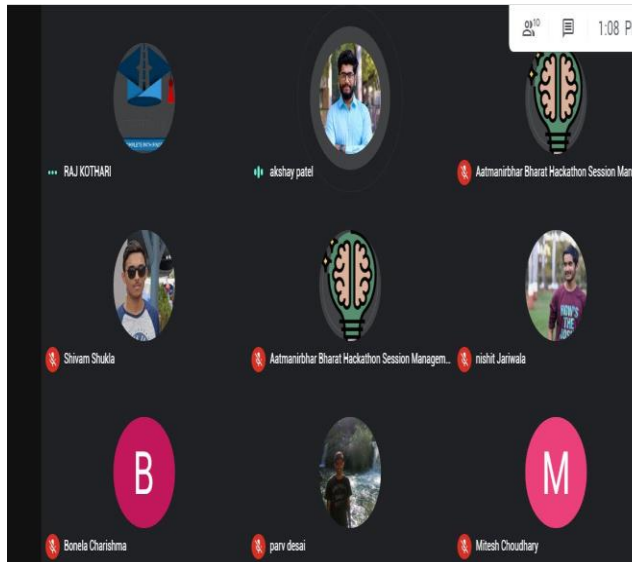
The expert highlighted certain pros and cons of each respective project and asked them to improvise further and come with a perfect end-product. After an efficient interaction, teams got encouraged to modify their project and had the desired outcome.

On **10th July 2020**, the final evaluation round was scheduled at 12:00 pm IST with a ray of hope to get something better. Every team had successfully submitted their Devfolio link to present their actual project. For this round, moderators were asked to display PPT of each team and the team would present their project to expert. Teams had finally conveyed their idea to an expert regarding the project implementation and other general aspects associated with it.

The experts were quite impressed by the kind efforts of the teams and gave few virtuous suggestions to the teams about how they can deploy their innovative projects and ideas in the actual market. Few teams had amazing execution which impressed experts due to which they got an opportunity to work under the guidance of experts. After efficient hours of interaction and presentation, the final round of hackathon came to end with a successful note of **AATMANIRBHAR BHARAT**.

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Glimpses of the Event



Result Declaration

Winners Aatmanirbhar Bharat Hackathon		
<i>Technology</i>		
Position	Team ID	Team Name
Winner	AANBHT03052	BACHELORS
Runner Up	AANBHT05111	Team HyBike
<i>E-Governance & Education</i>		
Position	Team ID	Team Name
Winner	AANBHT03051	Hackvitas
Runner Up	AANBHT02031	Abhyuday2.0
<i>Medicine & Health</i>		
Position	Team ID	Team Name
Winner	AANBHT06139	AI FOR GOOD
Runner Up	AANBHT03055	BACKYARD CREATORS
Runner Up	AANBHT06153	Team NoDiabetes
<i>Business Markets</i>		
Position	Team ID	Team Name
Winner	AANBHT06183	VisionIO
Runner Up	AANBHT06159	Interconnect
<i>Agriculture & Climate</i>		
Position	Team ID	Team Name
Winner	AANBHT02041	Team Light
Runner Up	AANBHT06160	DOMINATORS
Runner Up	AANBHT01012	Team JEMS

Special Mentions

During the event certain teams couldn't make it to the victory but their ideas and execution was great. These teams received good remarks from the experts and were worth mentioning.

Agriculture and Climate

Team ID	Team Name
AANBHT05120	Team Shield
AANBHT06172	Suveena
AANBHT06156	Eccentric squad
AANBHT03065	Thunderbirds
AANBHT03068	Webmasters

Business Markets

Team ID	Team Name
AANBHT05122	AllShop : C2B and B2B Communication application
AANBHT05110	New India
AANBHT06142	optline
AANBHT01024	Bharat-V.3

E-Governance & Education

Team ID	Team Name
AANBHT06181	TRI-ANGLE
AANBHT03057	Astralis
AANBHT04077	Brogrammers

Medicine & Health

Team ID	Team Name
AANBHT01002	Sudoswap
AANBHT02040	Team Archangels 12

Technology

Team ID	Team Name
AANBHT06128	Mind Benders
AANBHT04090	Continuum
AANBHT05118	ADAPTOIDS

Statistics of Entries (Based on Domains)

Domain	Count
Technology	42
E-Governance & Education	39
Medicine and Health	24
Business Markets	29
Agriculture and climate	49

Press Coverage

બિરલા વિશ્વકર્મા મહાવિદ્યાલય ખાતે “આત્મનિર્ભર ભારત હેકાથોન” નો પ્રારંભ

આણંદ, તા. ૧૦

ચારૂતર વિદ્યામંડળ સંચાલિત બિરલા વિશ્વકર્મા મહાવિદ્યાલય ખાતે મહાવિદ્યાલય માનવ સંશોધન વિકાસ મંત્રાલય (ભારત સરકાર), ગર્વમેન્ટ ઓફ ગુજરાત, TEQIP-III, BVM SSIP Cell અંતર્ગત “આત્મનિર્ભર ભારત હેકાથોન” નો પ્રારંભ કરવામાં આવ્યો. જે ઉદ્ઘાટન પ્રસંગે મુખ્ય અતિથિ તરીકે ડૉ. એસ.જી.પટેલ (માનદ્ મંત્રી, ચારૂતર વિદ્યામંડળ), ડૉ. પી.એમ.ખોડકે (સેન્ટ્રલ પ્રોજેક્ટ એડવાઈઝર, NPIU), એન્જિનિયર ભાસ્કર ત્રિવેદી (ડિરેક્ટર, પરફેક્ટ VIPs), એન્જિનિયર તેજસ વાઘેલા (GM/ડિરેક્ટર SLS), ડૉ. ઈન્દ્રજીત એન.પટેલ (પ્રિન્સિપાલ, બીવીએમ), ઈવેન્ટ કોડિનેટર્સ, ડૉ. ભાર્ગવ ગોરડિયા (નોડલ ઓફિસર, SSIP BVM) તથા ડૉ. રાજવીરસિંહ રાણા (કોર્ડિનેટર, SSIP BVM), ડૉ. ઝંખના શાહ ઉપસ્થિત રહ્યાં હતા.

ઈવેન્ટની શરૂઆત પ્રાર્થનાગીત બાદ ડૉ. ઝંખના શાહે ઉપસ્થિત મહાનુભાવોનો પરિચય આપ્યો હતો. સંસ્થાના

પ્રિન્સિપાલ ડૉ. ઈન્દ્રજીત એન.પટેલે જણાવ્યું હતું કે તા.૨૦ જૂન ૨૦૨૦ના રોજ બીવીએમ ખાતે આત્મનિર્ભર આઈડિયાથોન નું સફળ આયોજન હાથ ધરવામાં આવ્યું હતું.

ડૉ.ભાર્ગવ ગોરડિયા એ જણાવ્યું હતું કે દેશના વડાપ્રધાન નરેન્દ્રભાઈ મોદીના આત્મનિર્ભર ભારત અભિયાનને અનુલક્ષીને આત્મનિર્ભર ભારત હેકાથોનનું આયોજન ઈનોવેટિવ સોલ્યુશનને પ્રમોટ કરવા માટે તથા મેક ઈન ઈન્ડિયાને સાર્થક કરવા માટે કરવામાં આવ્યું છે. આત્મનિર્ભર ભારત હેકાથોનમાં સમગ્ર દેશમાંથી ૧૮૨ ટીમોના ૧૦૦૦ થી વધુ વિદ્યાર્થીઓ એ ભાગ લીધો છે.

એન્જિનિયર તેજસ વાઘેલાએ જણાવ્યું હતું કે આત્મનિર્ભર ભારત અભિયાન તથા વોકલ ફોર લોકલ અંતર્ગત ઈકોનોમી, ઈન્ફ્રાસ્ટ્રક્ચર, સિસ્ટમ, ડેમોક્રસી તથા ડિમાન્ડને બુસ્ટ અપ કરવાનો છે.

એન્જિનિયર ભાસ્કર ત્રિવેદીએ જણાવ્યું હતું કે કોવીડ-૧૯ પેડેમીક લોકડાઉનમાં દેશના નાગરિકોએ જંકફૂડથી દૂર રહીને તથા ઘરે ઘરેક કામ



જાતે કરીને આત્મનિર્ભરતાને ખરા અર્થમાં સાબિત કરી છે.

ડૉ.પી.એમ. ખોડકેએ જણાવ્યું હતું કે પાંચ અલગ અલગ ડોમેઈનમાં વિદ્યાર્થીઓનું પાર્ટીસીપેશન નોંધપાત્ર છે. ઈનોવેશન તથા ક્રિએટિવિટી માટે આત્મનિર્ભર હેકાથોને વિદ્યાર્થીઓને પ્લેટફોર્મ પૂરું પાડશે.

ડૉ. એસ.જી.પટેલે સમગ્ર બીવીએમને આત્મનિર્ભર ભારત હેકાથોનના આયોજન બદલ અભિનંદન પાઠવ્યા હતા. અંતે ડૉ. રાજવીરસિંહ રાણાએ સૌનો આભાર વ્યક્ત કર્યો હતો.

Faculty Team – Aatmanirbhar Bharat Hackathon

President & Convener	Dr I N Patel
Coordinator	Dr S D Dhiman, Dr B C Goradiya, Dr R C Rana
Publicity & Invitation	Dr Zankhana Shah, Dr Mehfuza Holia
Session Management & Report Making	Prof. Jagruti Shah, Dr Vishal Aarekar
Registration	Prof. Priyank, Prof. Mahendra Prajapati
Evaluation and prize distribution	Prof. Anish Vahora, Prof. Ronak Vashi
Finance	Dr H J Chauhan, Prof. Swapnil Aarya
Hosting	Dr. Zankhana Shah
Media & Photography	Prof. Mayur Sevak
Website	Prof. Mosin
Members	Prof. Rakesh Barot, Prof. H J Kataria, Prof. Ashish Thakkar

List of Experts for Aatmanirbhar Bharat Hackathon

Sr No.	Track Name	Industry Expert
1	Sustainable Smart Technology	Er. Dhaval Shah Director, Omnisense Technology Dhaval.shah@omnisense.co.in +91-9099908443
		Er. Mikita Parikh Project Manager, SLS Mikita.parikh@slscorp.com +91-9924175300
		Mr. Krunal Jani Associate delivery manager, Civica Krunal.2984@gmail.com +91-8128982778
		Er. Ankitkumar Vadher Sr. IOS Developer Vadherankit6@gmail.com +91-9408688115
2	E-Governance & Education	Er. Chintan Buch Founder & CTO chintan@binarybrew.io +91-9900333660
		Er. Vatsal Trivedi Junior Engineer, TCS trivedivatsal005@gmail.com +91-7600635053
		Er. Harshit Lalpura Founder & Chief Technology Officer at Hash Media harshit@hashmedia.in +91-9879275507
3	Medicine & Health	Er. Bhaskar Trivedi Senior Director, Perfectvips bhaskar@perfectvips.com +91-9825310557
		Er. Parthav Vyas Sr Verification Lead at PerfectVIPs parthav@perfectvips.com +91-8780684750

4	Business Markets	Er. Raj Kothari Director, MyClassCampus raj@myclasscampus.com +91-9033549336
		Er. Nishar Soneji Senior Principal Product Manager Nishar.soneji@gmail.com +91-8095786920
5	Agriculture & Climate	Er. Ghansyam Vaghasiya Founder of ACDC Tech account@acdtech.in +91-9512410287
		Er. Chirag Rabhadiya Chief Engineer & Architect - Train Control & Management System - BOMBARDIER Chirag.rabhadiya@rail.bombardier.com +91-9998975374
		Er. Keyur Chauhan Shreejicharan Electronics, V V Nagar shreejicharanelectronics@gmail.com +91-9978844178
		Er. Raj Chokshi SoC Design Engineer, IBM, Bangalore Raj.choksi1@gmail.com +91-8062112040

Core Team – Aatmanirbhar Bharat Hackathon

Organizing Leads

Jaimin Shimpi
Zeelrajsinh Mahida
Ibrahim Koicha

Organizing Team

Venu Upadhyay
Atharva Bhave
Galav Bhatt
Gaurav Barve
Dhruv Pokar
Uttam Sorathiya
Aditya Shah
Sneh Trivedi
Khanjan Marthak
Arka Gosh
Setu Thacker

Advisory Team

Devansh Parikh
Kedar Patel
Yagnik Mehta
Darshit Vyas
Dhaval Kambaliya
Nisarg Patel
Parth Shah
Rahul Hadiya
Himanshu Thacker
Akhil Rabadiya
Darshan Panchal
Mohit Doshi
Abhishek Mungra
Jayraj Bhadakan
Kenil Naik
Shristy Singh
Dhruv Shah
Smit Bhagiya
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Shivang Patel

Feedback of Experts

<u>Team Name</u>	<u>Feedback Given by the team</u>
Bhaskar Trivedi	As given feedback during session it appears faculties need to support students
Nishar Soneji	Screening projects in advance would give examiner a better quality products to assess.
Er. Raj Kothari	Management and organising things was quite great. However, need to focus on real like problem statement and not copy of some existing solutions. That will create real innovation. Even if it's domain specific or for small audience, if the solution is solving some core problems, it will be more meaningful.
Ghanshyam Vaghasiya	Time Punctuality and Management was good enough
Mikita Parekh	more focus on current methodology

Feedback of Participants

Team Name	Feedback Given by the team
Elite	Everything was really good
Team Light	This was our very first Hackathon and it was the best experience ever. We are also happy that we have won in the field of Agriculture in our very first Hackathon Itself!
Runtime terror	Nice experience
Procter's team	It's very nice experience
software Chasers	it's very wonderful experience for me. from this i learned a lot. and enjoy it also.
Power Pandas	Conducted nice. No complaints.
The unknown thinkers	Good coordination
Interconnect	everything was good and nicely organized.
Bharat-V.3	It is really a great initiative. For many hackathons, I have seen a lot of restrictions, especially age group restriction. Thank you for making this hackathon available for everyone irrespective of their age. I really gained a lot of experience in time management. I would also suggest to organise a hackathon on hardware edition cause these times really need great equipments inorder to sustain and be independent on other countries for any health equipment or any other.
BACHELORS	Thank you for your support and thanks for motivating us.
Team JEMS	Great Technological Breakthrough.
Webmasters	This was a great hackathon I got to learn about many new things from the experts
AI FOR GOOD	How to proceed further. Need some more guidance and help for startup
Technovators	The Hackathon was organized very well. Thanks for this wonderful opportunity.
WebMasters	It was an awesome experience and I would part in upcoming Hackathons
404 not found	It was a great initiative hope to work again with uh all
Hackvitas	It was great experience, even though everything was organized online . All the coordinator were really very supportive and helping on the spot , truly great job by them . The jury were very good and gave a great suggestion and judgement about the project. Everything went on time, no delay in anything which was very impressive .
Ctrl Alt Elite	An excellent opportunity for young innovators. I hope team ABIH keeps on giving their best to everyone.

Adaptoids	It is a great opportunity to show our skills.
Inshorts	It was a very good initiative and a very enthralling experience
DOMINATORS	All on all it was very perfect and excellently managed event. Glad to participate in it
Backyard Creators	Awesome. guidance from volunteer's
Onestepahead	Nice one, I would like to participate in hackathon next year.
Techatrons	It was a great experience overall and we got to learn a lot. Thanks
Dynamic dudes	Great experience would love to have more such events
CatchU	It was great experience. Thank you for organizing such mind storming competition.
The Defenders	Great event to be in online mood during this quarantine period and have new reach to our ideas
KALAM	We would love to see such events more often. Experts gave good suggestion overall
Sudoswap	Want to say thank you for providing me such an opportunity
DD's Developer	It was a good experience but if we could get Incubation as well it would be better for the Special Team
Geeky Nerds	it would be great if you people have the girls team award as well
Team Atmanirbhar	It was a great experience, having the opportunity to share your ideas and make the use of them to help with real life problems. Overall it was a great opportunity