

HACKFEST'20

IMAGINE . INNOVATE . IMPLEMENT

27th - 29th MARCH 2020

INDIAN INSTITUTE OF TECHNOLOGY
(INDIAN SCHOOL OF MINES)
DHANBAD



INTRODUCTION

HackFest is a 36-hour long hackathon organized by the Computer Science and Engineering Society of IIT (ISM) Dhanbad, On an annual basis to provide to the students a platform that helps them develop new skills and use their existing skill-set in building prototypes of products in teams and contribute to the tech community. The forte of this hackathon lies not only in its spectacular display of technical acumen, but also in its wide platform for entrepreneurial undertakings and social initiatives. The editions of HackFest pertaining to the years 2016, 2017, 2018 and 2019 have proved to be some of the finest hackathons in terms of adding values to our community of diverse technologists.

Over 2500 enthusiasts signed up for the past three hackathons creating 50+ new Git repositories in HackFest '19 alone.

Applications based on Machine Learning, Cryptography, Image Processing and various other fields were built from scratch. We believe in fostering the spirit of innovation and igniting young minds towards a more technologically and economically viable future. Participants get to spend a weekend having fun, meeting new people and preparing themselves for technical careers. HackFest provides a real-world hands-on experience to the participants as they compete with their product.

Students have a chance to gain time as well as team management skills along with exposure to the technology of contemporary world.

CSE SOCIETY

The Computer Science and Engineering Society (CSES) is jointly run by alumni, students and faculty of the Computer Science and Engineering Department, Indian Institute of Technology (ISM), Dhanbad. CSES aims to encourage skill development and team work among the students through various technical and cultural events organized within the department.

Hackfest which conceptualises "ideas into reality" was itself started as an inception of a brilliant thought. It was created to focus on the problem solving skills of the budding minds of India. Now it serves a plethora of purposes ranging from social issues to groundbreaking inventions.

HackFest was a subjective approach to judge and analyse the analytical and problem solving skills through innovation and creativity. It continuously strives to evolve even further by continuing to fuel the bright brains of India.



OUR AIM

Support the innovators and creators with resources and mentorship that they require.

Hosting one of India's largest accelerators on campus and also a Tech-diversity.

Becoming the centre of Tech-community in India.

Collaborating with companies on innovative projects

Hosting acclaimed speaker sessions.

WORDS FROM THE CONVENER



Dr. Haider Banka
Head of Department
Computer Science and Engineering
Indian Institute of Technology
(ISM) Dhanbad

A successful career in a technical position is not solely based on solid technical skills. It requires soft skills as well as team collaboration and effective communication.

The hackathon environment is absolutely the perfect place to foster those skills. A hackathon may be the breeding ground of the next big idea that becomes the foundation of a startup. The time limit in a hackathon forces participants to distil their visionary concepts down to actionable solutions.

With great pleasure, on behalf of Computer Science & Engineering Society (CSES) of IIT(ISM) Dhanbad, we unveil Hackfest' 20 — one of the finest hackathons in India

Hackfest'2020 gives you the freedom to step outside the constraints of your usual day-to-day requirements and see what you can come up with when the ball is in your court. It's an opportunity to work on projects that you are excited about. And also a chance to explore something in line with needs of industry that you have never thought of.

Apart from these, being surrounded by very interesting people, engaging in fun activities and having your brain stimulated with new technologies is definitely a great combination for having fun.

Your worthwhile participation will intensify the glory of Hackfest.



WHY SPONSOR HACKFEST

Greetings from Indian Institute of Technology (ISM) Dhanbad. It is our great pleasure to inform you that Indian Institute of Technology (ISM) Dhanbad is going to organize 'Hackfest', a 36 hours long hackathon during March 27 - 29, 2020.

Through Hackfest, we aim to provide an excellent opportunity to young technical minds to compete with the best and brightest from all over the nation and hone their scientific, technical and professional skills. This event is targeted at giving an impetus to innovation and exchange of ideas. Hackfest is not just about creating technologies, it's about celebrating the students' innovation. People gather to solve the emerging problems of society using the hottest technologies.

The main theme is to provide you a platform to harness the skills and abilities of the best minds.

Building this event from scratch would require your invaluable support to our endeavour. Our Alma Mater has always shared a cordial relation with your company.

Our partnerships with the Sponsors have proved most valuable over the last year. It is very important that we continue to fuel these partnerships so that we drive positive social change.

It is clear to see that these deep relations provide more value than either partner could deliver individually and we look forward to working with more internal partners and continuing to engage with our existing ones.

Keeping in view, the impeccable stature of your side, you are requested to be one of the sponsors of this esteemed event. Being a reputed company, we would be ecstatic if you agree to become our Sponsor.

OTHER MODES OF PARTNERSHIP

Food & Beverage Partner

Provide food and beverage support for the event, quality of food is definitely something to be kept in mind. Contact the team for information & related benefits.

Reimbursement Partner

Provide travel reimbursement to the participants coming from across the country. Contact the team for information and related benefits.

SPONSORSHIP LEVELS

Sponsorship Tiers	BRONZE 300 USD+	SILVER 700USD+	GOLD 1050USD+	PLATINUM 1400USD+	TITLE 1700USD+
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TOP 3 PROJECTS OF HACKFEST'19

1. Team Enigma Rebooted

They were the winners of Hackfest 2k19. They came up with an AI based modality converter to assist visually impaired people, namely "Smart B-cane". It converts the visual data obtained by image processing into an alternate auditory modality that will provide the blind user with a robotic vision through speech. B-cane(Smart Blind Man Stick) contains three main parts, a raspberry pi, a pi camera and an artificial intelligence module. When the user presses the button on the B-cane, the camera module starts to take real-time video stream and detect the object/person faced by the user, and then using a speaker or headphone, the device will voice assist the person about the environment.

2. Team Vector

They developed an application to reduce vehicular traffic at the toll plazas and make toll payments electronic. An android application was created through which a person can pay the toll tax before reaching to the toll booth. With the help of image processing vehicle number will be read and then checked in the database containing payment status. On positive response vehicle will be allowed to pass. Technology stack comprised of Android Studio, XML, JAVA, SQL and Python.

3. Team Kuch Bhi Rakh Lo

They worked on the idea of driver assistance technology and secured third position. A safety system for avoiding two wheeler accidents was developed. The aim of the project was to design and develop a Rider-Assist Technology which can prevent the two-wheeled vehicle from tilting beyond a safe inclination. This can save the vehicle from falling eventually saving the rider from casualties.

TESTIMONIALS

SAMSUNG

Hackfest was a great platform where we witnessed hundreds of participants with innovative ideas. HackFest aligned with our vision of 2020, 'Innovation through smaller things' and 'The Butterfly Effect' - the smallest of ideas can bring up the largest of changes. Participants assembled with idea-driven codes to produce efficient and workable solutions. HackFest proved to be an ideal incubator for developers of the future; thanks to the organisers for the smooth organisation of the event.

Walmart

Hackfest 2k19 was the launchpad of innovative ideas of tech-enthusiasts. People got together into teams, pitched ideas and worked on turning the ideas into applications. It provided a great platform with the unified motive to bring together the people who are passionate about building, designing and innovating. The 36 hour hackathon proved to be spectacular and enthralling.

There was an energy and enthusiasm in the participants that sustained till the end of the hackathon. Thanks to the organizers, who did commendable work by ensuring smooth proceedings of the event.

mozilla

Hackfest at IIT (ISM) Dhanbad was a perfect place for me to learn and relearn new things. Though I went there as a hackathon mentor, but I learnt a lot of new things as well as I taught pupils a lot of new things too.

Perfect bunches of developers and innovators, working together making loads of new things for 36 long hours were absolutely amazing. Thanks to HackerEarth for conducting these types of hackathon in colleges! I met some real talent there and they made the hackathon perfect!

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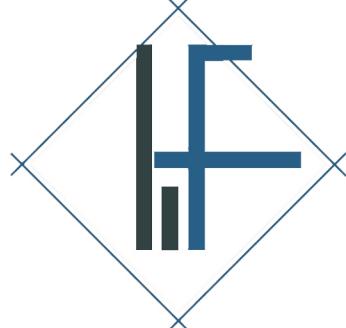
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