HACK**FEST**
2019

15TH - 17TH   MARCH 2019

**INDIAN INSTITUTE OF TECHNOLOGY
(INDIAN SCHOOL OF MINES)
DHANBAD**

SOCIETY

INTRODUCT<u>ION</u>

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 editions of HackFest pertaining to the years 2016, 2017 and 2018 have proved to be some of the finest hackathons in terms of adding values to our community of diverse technologists. Over 2000 enthusiasts signed up for the past three hackathons creating 50+ new Git repositories in HackFest '18 alone. Applications based on Machine Learning, Cryptography, Image Processing, and various other fields were built from scratch.

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 newest technology.

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.
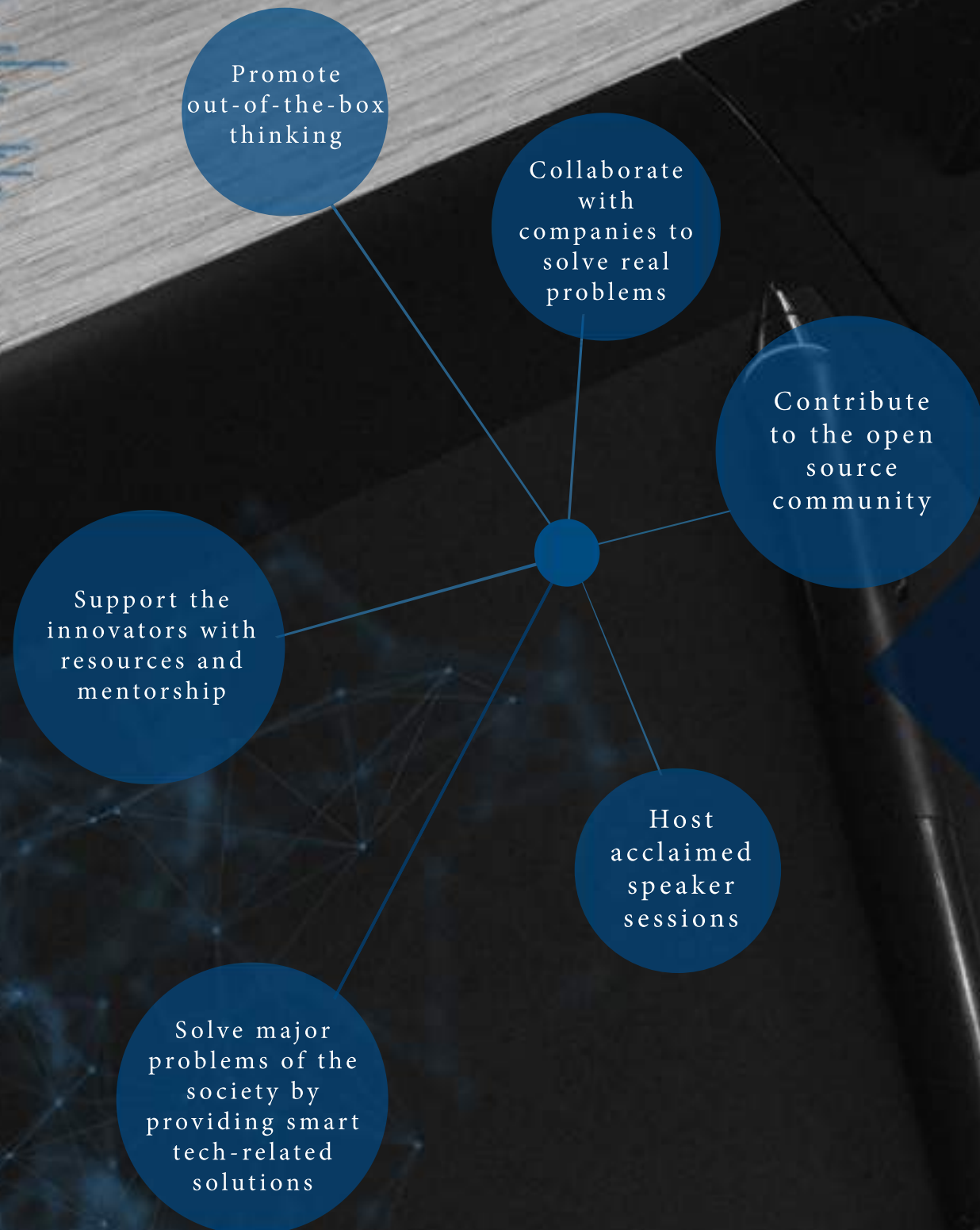
HackFest, which helps materialize "ideas into reality", was conceptualized with brilliant thought. It was created to focus on the problem-solving skills of the budding minds of India.

HackFest is a subjective approach to judge and analyse the analytical and problem-solving skills through innovation and creativity in a specified period of 36 hours. It continuously strives to evolve further by continuing to fuel the bright brains of India.

OUR AIM

- Promote out-of-the-box thinking
- Collaborate with companies to solve real problems
- Contribute to the open source community
- Support the innovators with resources and mentorship
- Host acclaimed speaker sessions
- Solve major problems of the society by providing smart tech-related solutions

FROM THE HOD's DESK

Dr. Haider Banka
Head of Department
Computer Science and
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Indian Institute of Technology
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A successful career in the software and technology domain is not solely based on technical skills. It requires soft skills as well as team collaboration and effective communication. At a hackathon, you constantly get challenged in different ways and you learn new things about technology during the process of converting ideas into code, beginning from scratch.

The hackathon environment endorses the principle of peer-learning. It serves as the breeding ground for the next big idea that could become the foundation of a multi-million dollar startup. The time limit in a hackathon forces participants to distil their visionary concepts down to an actionable solution in an effective time-frame.

With great pleasure we present HackFest '19, a one of its kind hackathon organised by the Computer Science and Engineering Society, IIT (ISM) Dhanbad! HackFest '19 gives you the freedom to step outside the monotonous constraints of your usual day-to-day life and see what you can come up with when the ball is in your court! It's an opportunity to explore projects that you are excited about and learn about cutting-edge technological elements in line with the needs of industry and work on problems that might never have been thought of before!

We invite you all wholeheartedly to participate in HackFest '19, which we believe, will intensify the glory of HackFest. May the code be with you!

TOP 3 PROJECTS OF HACKFEST'18

1. BitsPlease
They emerged as the winners of HackFest '18. They came up with a Machine Learning and Natural Language Processing based fake news detector application. Fake news is a type of propaganda that consists of purposeful misinformation that can now be disseminated virally due to social media and online publishing. Its impact on elections, politics, and opinions has been well documented as a major cause of polarisation in modern society. The application classifies news on the basis of source, associated URLs, the general topic of news, publishing medium, country, and region, as well as linguistic features among others.

2. Int_Elligence
They came up with a Hand Talk Assistive Glove so the deaf and mute people could communicate with the same ease as the normal people do. The Hand Talk Glove is a normal, cloth driving glove fitted with flex sensors. The sensors output a stream of data that varies with the degree of bend made by the fingers. Flex sensors are sensors that change in resistance depending on the amount of bend on the sensor. They convert the change in the bend to electrical resistance - the more the bend, the more the resistance value. The output from the sensor is converted to digital and processed by using a microcontroller and then it responds with a voice using the speaker.

3. tRANNSducers
They positioned third in the hackathon having aimed to build an IRis - IR based Audience Response System. They conceptualized a modification in the technology already in use to develop a low-cost alternative and at the same time enhance data privacy. The threat of external eavesdropping which prevails in case of RF communication is eliminated. This makes IRis, an ideal military grade product. Apart from this its applications include but are not limited to education, decision support assessment, game shows, and mass feedback gathering.

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 Butterly 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.

ATKINS

My experience of the inaugural Hackfest was simply fantastic. I could feel the energy flowing in the hall for 36 hours. The ideas and enthusiasm of the participants were impressive. It was a professionally organised event, and all credit goes to organisers and the participants. Best wishes to all of you!!

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 pupil 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!

WHY SPONSOR HACKFEST

Our aim is to give an amazing opportunity to the young technical minds to compete with the best from all over the nation using their technical and professional skills. HackFest is not just about creating technologies, it is about celebrating students' innovation. This event provides a platform for sharpening the problem solving skills of the participants, while coming up with a working solution to the emerging problems of society by applying the most relevant technologies.

HackFest will provide you a stage to harness and extract the abilities of the best minds of the nation. Organising an event of this scale and calibre would require your invaluable support. Our partnerships with the past sponsors have proven to be the most promising over the last few editions of HackFest. It is of the utmost importance that we continue to do the same to ensure that HackFest continues to deliver on its core principles .

Keeping in view the great stature of your side, we request you 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. Contact the team for more information and related benefits.

MODES OF PARTNERSHIP

1. **Financial:**
   Provide financial support for conducting the event efficiently and on a large scale.
2. **API Directory/Problem Statements:**
   Provide software/problem statements for the participants to use/work upon.
3. **Talent Acquisition through internships or workshops:**
   Organise workshops or provide internships based on the participants' performance during the event.
4. **Speaker/Judge Panels:**
   Provide speakers to conduct sessions on some tech topics to technically enlighten and mentoring the participants.
5. **Swag:**
   Provide swag in the form of t-shirts, VRs, stickers and others to the participating teams.
6. **Food & Beverage:**
   Provide food and beverage support for the event; quality of food is definitely something to be kept in mind.
7. **Reimbursement:**
   Provide travel reimbursement to the participants coming from across the country.

SPONSORSHIP LEVELS

Sponsorship Tiers	BRONZE 300 USD+	SILVER 700 USD+	GOLD 1050 USD+	PLATINUM 1400 USD+	TITLE 1750 USD+
BRANDING					
Award Branded Prize	✓	✓	✓	✓	✓
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Bring Swag	✓	✓	✓	✓	✓
Logo on Website	✓	✓	✓	✓	✓
Advertising Stalls		✓	✓	✓	✓
Sponsors Side Event			30min	45min	60min
Present Prize			✓	✓	✓
Logo on T-Shirt				✓	✓
Logo on Certificates and ID cards				✓	✓
Key Note Speech					✓
RECRUITMENT					
Distribute Recruiting Materials	✓	✓	✓	✓	✓
Resumes	✓	✓	✓	✓	✓
Recruiters			✓	✓	✓
Placement Slot				✓	✓
EVENT COLLABORATION					
Send Mentors	✓	✓	✓	✓	✓
Opening Ceremony (Introduction)	✓	✓	✓	✓	✓
Problem Statement			✓	✓	✓
API Directory				✓	✓
ONLINE PROMOTION					
Social Media Promotions	✓	✓	✓	✓	✓

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