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| **Activity Title** | **KAVACH 2023 Hackathon report**<br>KAVACH 2023 organized by MoE's Innovation Cell, AICTE along with Bureau of Police Research and Development (BPR&D) (MHA) and Indian Cybercrime Coordination Centre (I4C)(MHA). KAVACH-2023 is an exceptional chance for higher education students and startups in India to contribute their creative concepts and ideas to address the challenges of cyber security. |
| **Activity Coordinators** | • Dr. Dhananjay Patel(EXTC)-SIH-SPOC<br>• Prof Vinita Bhandiwad (INFT)- Coordinator<br>• Prof Kanchan Dhuri (INFT) - Coordinator |
| **Date/s & Venue/s** | • Internal Hackathon: 10th and 11th April 2023 from 3 pm to 5 pm. at VIT<br>• Kavach Grand Finale: 8th and 9th August 2023 |
| **Objective** | The activity was conducted to nurture technical and interpersonal skills of students and faculties by providing technical solutions to real world problems and benefit our nation as well as society. |
| **Activity Description** | On the 10th and 11th April 2023 VIT organized an internal hackathon, from 3 p.m. to 5 p.m. Everyone is encouraged to participate in the competition. VIT has sent 18 student teams, and all of the teams will present their chosen projects. Faculty members expressed an interest in participating by visiting the teams and providing helpful feedback. The goal of this competition was to choose the best team to represent India at the KAVACH 2023 Hackathon competition in 2023.<br>VIT has entered the software edition of the KAVACH 2023 Hackathon competition in 2023. In the competition, one of our teams took first place. Out of the two teams that competed in KAVACH 2023. It was held on the 8th and 9th of August, 2023, with the results announced on the 9th of August, 2023.<br><br>Problem statement:<br>Design and develop an AI-enabled technological solution for actionable Crime Intelligence from the Deep and Dark Web including but not limited to child pornography, weapons, drugs etc. The solution should have the capability to raise demands for additional information from clear-net and proprietary databases viz. TSPs/ISPs for attempting correlation and attribution. |

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| | Problem statements:<br>Design and develop a technological solution that can accurately perform the Automatic Number Plate Recognition (ANPR) along with Facial Recognition from the available CCTV feeds. The solution should be able to recognize number plates that are written in typical non-standard ways using varying font styles, sizes, designs, symbols, languages etc., i.e. difficult to recognize by existing ANPR Systems. |
| **Preparation** | The schedule was prepared and uploaded on vshow and other social media handles of VIT. A flex was prepared for the event. |
| **Takeaway** | All attendees of event provided technical solutions to real world problems and benefited our nation as well as society. |
| **Mapping to Vision Statement** | Activity provided valuable information to nurture technical and interpersonal skills of students by providing technical solutions to real world problems thus motivating students to evolve into competent professionals and researchers to benefit society. |
| **Photographs** | **KAVACH 2023 Grand Finale Winners**<br> <br> <br>**Team Members:** Aadit Chavan, Adwait Godbole, Abhishek Jadhav, Priyal Dupar, Yash Malode, Amit Sharma<br>**Mentored by:** Dr. Dhananjay Patel, Prof. Vinita Bhandiwad, Prof. Kanchan Dhuri |

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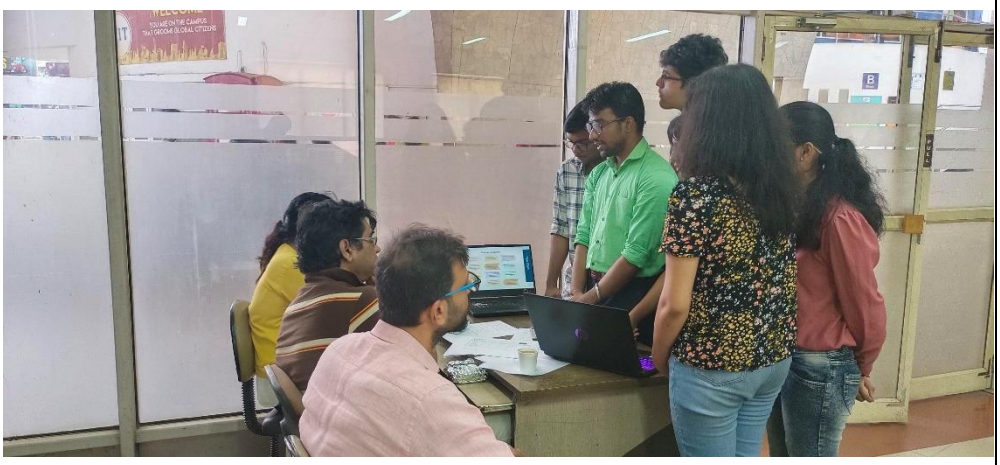
## Internal Hackathon Glimpses



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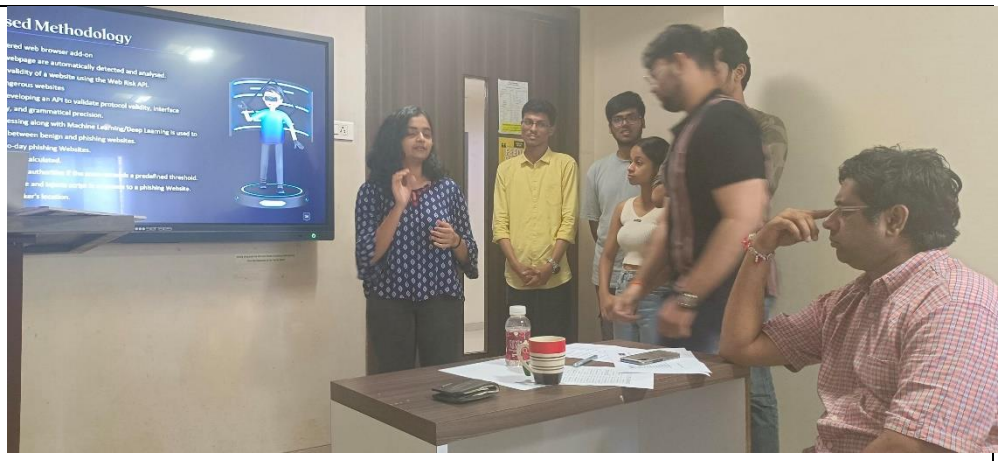
| |   |
| **Dr. Dhananjay Patel Signature** | |