

HITK students win National Level Hackathon at Gujarat, Bengal's pride on this National Technology Day

A duo from Heritage Institute of Technology (HITK), Agnish Ghosh B.Tech- CSE 2nd Year and Rajarshi Paul B.Tech- ECE 2nd Year invented a web-based application DeCert which has won the first prize at HackSVIT, a national level Hackathon at Gujarat.



kolkata, West bengal May 12, 2022 ([Issuewire.com](https://www.issuewire.com)) - Today internet-based education has undergone a big boom, thereby boosting the economy to a greater extent. In a country like India, EdTech Startups have contributed not only to the job market but also to the upliftment of the quality of education for the Indian students. However, there is a major loophole in the process of certification, in most cases, the companies; even the big players in the market, like, Coursera and Udemy only provide a certificate in PDF format. **Now this certificate can be easily forged or manipulated, and the name of the student can be easily changed. Hence, there is a need for a proper authentication mechanism to check the validity of the certificate generated in a PDF format.**

Finding a solution to this problem, a duo from [Heritage Institute of Technology \(HITK\)](https://www.heritageinstitute.com), **Agnish Ghosh B.Tech- CSE 2nd Year and Rajarshi Paul B.Tech- ECE 2nd Year** invented a web-based

application **DeCert which is based on the core principles of blockchain, encryption, and network security.** Using the **ideas of non-fungibility and tokenization**, the students have managed to create an interface that tokenizes the PDF certificate data. **The idea of tokenization works in encrypting the PDF certificate's data and distributing it over a decentralized blockchain network, in such a way that every time a user/organization wants to access the certificate data, there is a need to render the information from the network. In this process, the data undergoes an immense level of security, preventing copyright infringements, forgery, and fraud.**

The application had won at **HackSVIT, a national level Hackathon organized by Sardar Vallabhai Patel Institute of Technology (SVIT), Vasad, Gujarat** on 29th April 2022.

The Hackathon was partnered with **Major League Hacking which is a Talent-Acquisition division by Facebook (Meta Platforms). This was the only offline Hackathon, organized by Major League Hacking (Meta Platforms), in the Indian Subcontinent, for the year 2022.**

There were **980+ selected registrations** for the offline event, **over 600 reviews of projects** on their online platforms, and **finally 115 teams competing in the final event with about 500 programmers from all across the country.**

The Hackathon had a duration of 36 hours at a stretch. Here the participants had to **program and assemble their ideas into websites, applications, and software prototypes.** The organizers provided all the infrastructural support to the participants.

There were **3 rounds of mentoring**, where computer scientists, startup founders, and other company tech leads mentored the participants about the product and tech stack they used. **In between those 3 rounds, there were 2 rounds of judging where the participants had to pitch and demonstrate their products in front of the judges.**

In these rounds, the judges and mentors were quite impressed by the level of technology and product knowledge Agnish & Rajarshi possessed for which they were declared the winner of the National event.

In the final round, there was an entire jury of tech start-up founders and investors who asked various questions to the participants, and the duo also proved their best with their unique idea of data security overtaking others.

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