



MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL

NH-12 (Old NH-34), Simhat, Haringhata, Nadia- 741249,
West Bengal

DEPARTMENT OF INFORMATION TECHNOLOGY

ITimes

TIME TO EXPLORE SKILLS OF IT'S



INDEX

CONTENT	PAGE NO.
ABOUT UNIVERSITY.....	4
FROM THE HEAD OF DEPARTMENT, INFORMATION TECHNOLOGY.....	5
FROM THE DESK OF THE STUDENT EDITORIAL BOARD.....	6
EVENTS ORGANIZED.....	7-10
• NCC EVENTS	8-9
• NSS EVENTS	10
TECHNICAL SECTION.....	11-15
• INTRODUCTION: THE NEW WAVE OF BACKEND EFFICIENCY	12-13
• NEXUSONE	14-15
• WANDERLUST	16-17
WORKSHOPS ORGANISED.....	18
HACKAUT.....	19-20
GDG EVENTS.....	21-22

NON-TECHNICAL..... 23-32

SECTION.....

- **ALMIGHTY..... 24** 1
- **BETTER DIMENSIONS..... 25**
- **WANDER TO WONDER 26**
- **COULDN'T KEEP EYES AWAY 27**
- **MAA..... 28**
- **MERI PREET, MERA GEET..... 29-30**
- **समय समय की बात 31**
- **ANSUNI DASTAN..... 32**
- **IT GALLERY..... 33-34**
- **WORDS FROM ALUMNI 35**
- **EDITORIAL SECTION..... 36**

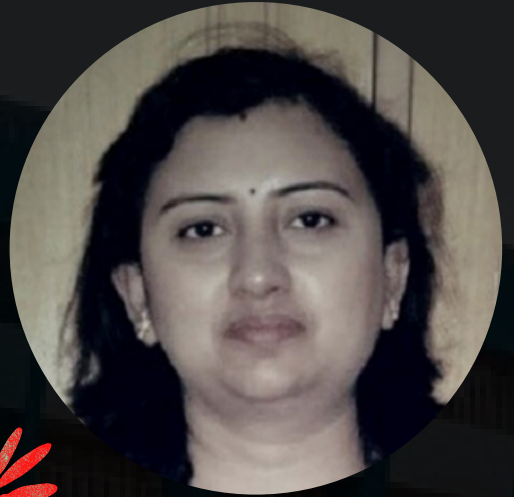
About the University



Maulana Abul Kalam Azad University of Technology, West Bengal, formerly West Bengal University of Technology (WBUT), is a State Government Technological University in West Bengal. It was founded in the year 2000 and has 200 affiliated Engineering and Management Colleges all over the State. The University provides facilities for the quest of degree and advanced-level courses in Engineering, Management and other professional areas through affiliated institutions and In-House departments. The University is recognised by UGC and has been awarded B++ with CGPA of 2.87 by NAAC on first visit. The University takes pride in introducing a quarterly journal that aims to convert “Today’s Ideas to Tomorrow’s Technology” in the field of Science, Engineering, Management and Technology. The journal is devoted to publication of original research articles, review articles, short communications and eminent research work by Scientists and Academicians in various disciplines.

FROM THE DESK OF HEAD OF DEPARTMENT

Dr. Somdatta Chakravortty
Head of the Department(HoD)
Department of Information Technology
Maulana Abul Kalam Azad University of
Technology, West Bengal



"It gives me immense pleasure to be a part of the Students Magazine initiated by the Department of Information Technology "ITimes" since its inception. I feel very happy and proud that my students have worked very hard in bringing out the forth issue which has successfully showcased the diverse student activities of the Department. It is commendable that the Editorial Board has tried to project all the creative, technological and developmental aspects of students and I congratulate them for their endeavour.

I wish it every success in its future issues."



ABOUT ITIMES

ITimes is the official Student magazine of Department of Information Technology designed by the student editorial board of IT department of MAKAUT. It's vision is "IT'S TIME TO EXPLORE THE SKILLS OF IT STUDENTS".

This mainly focuses on the events organized by the students of IT, their technical activities (like technical blogs, journals, projects, etc.) and their participation in the non-technical events.

FROM THE DESK OF EDITORIAL BOARD

Good wishes to all the readers,
We're happy to present you the fourth issue of "ITimes", Student magazine. This magazine has been written and designed by the student editorial board of the IT department and contains loads of memories in it. We've given our best to it. Hope that we could get you to the memory lane. We have tried to put in some excellent moments, achievements, events organized, projects and activities done during the session of 2020-2021. Pictures and writeups from the students of IT department are also included. Also we appreciate each one of you for supporting us during this journey. Thank you.





CREAMER

EVENTS ORGANIZED

NCC Events



NCC Events



NSS Events





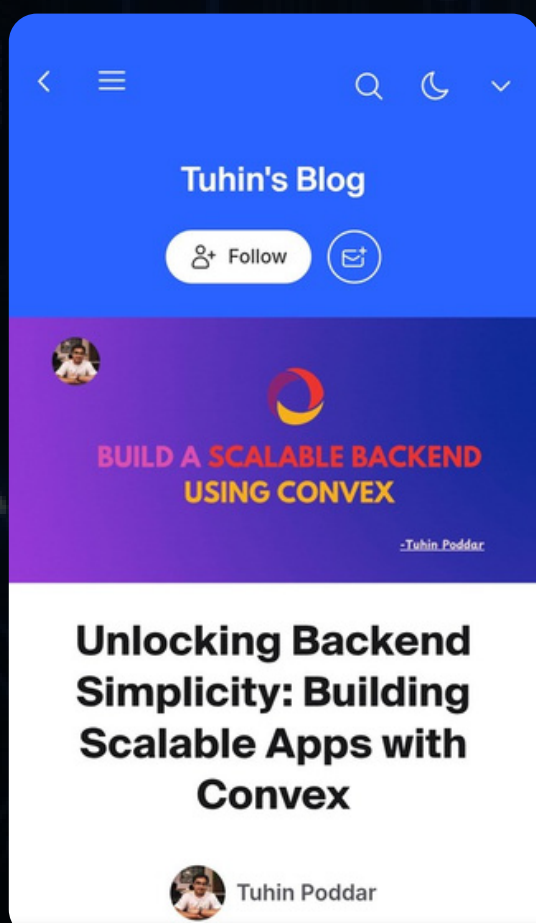
TECHNICAL SECTION

Introduction: The New Wave of Backend Efficiency

Tuhin Poddar , Btech IT 2023-27

Building scalable applications under tight timelines — especially hackathons — often feels like a fire-drill. Traditional stacks require developers to juggle authentication, database management, server logic, and real-time functionalities. This is exactly where Convex steps in as a disruptive backend platform, delivering a simplified, real-time, and developer-first environment.

This article breaks down how Convex compares with traditional backend workflows, showcases its operational advantages, and highlights developer experiences from real projects.



Why Convex Is Gaining Traction

A Full-Stack Backend Without the Backend Baggage

Convex isn't "just another database."

It offers a cohesive backend infrastructure — from serverless functions to real-time synchronization — enabling developers to focus primarily on product logic instead of system administration. Its tight integration with TypeScript and Next.js has made it particularly attractive to modern frontend-oriented teams.

Convex completely reimagines backend development by stripping away the chaos of authentication setups, database connections, and real-time features that usually demand multiple libraries and dozens of lines of code. Instead, it offers a unified ecosystem with built-in authentication, automatic data syncing, schema-less storage, and serverless functions written in JavaScript or TypeScript. Developers don't need to configure sockets or manage tokens manually—Convex handles all the heavy lifting through simple, readable APIs. This lets teams focus on building the actual product instead of wrestling with backend infrastructure. Whether you're building collaborative apps, dashboards, or high-traffic systems, Convex ensures scalability, real-time performance, and cleaner execution with minimal boilerplate.

getGroupMembers function.

Let's build a backend function using MongoDB and Node.js

- First we start by verifying the user's identity by a typical JWT and for error lets just return 401 Unauthorized response.

```
const identity = await verifyToken(  
if (!identity) {  
  res.status(401).send("Unauthorized");  
  return;  
}
```

- Once the user is authenticated, we retrieve the conversation details. This step involves querying the `conversations` collection in MongoDB by the provided conversation ID.

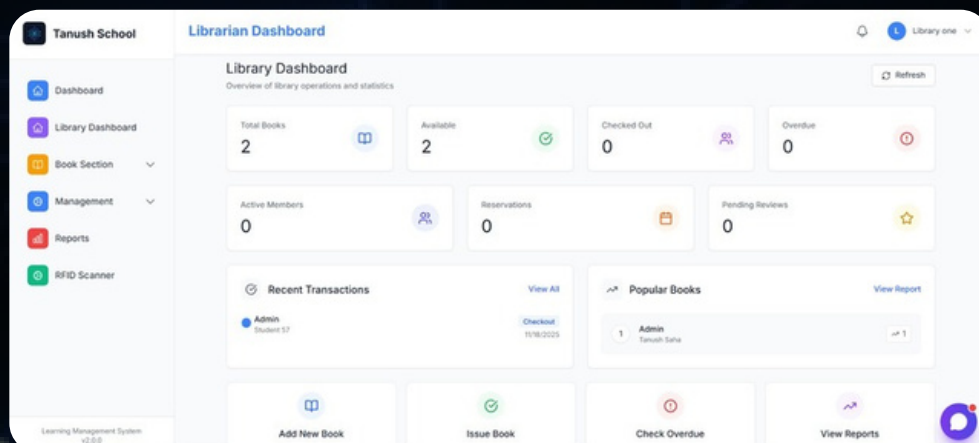
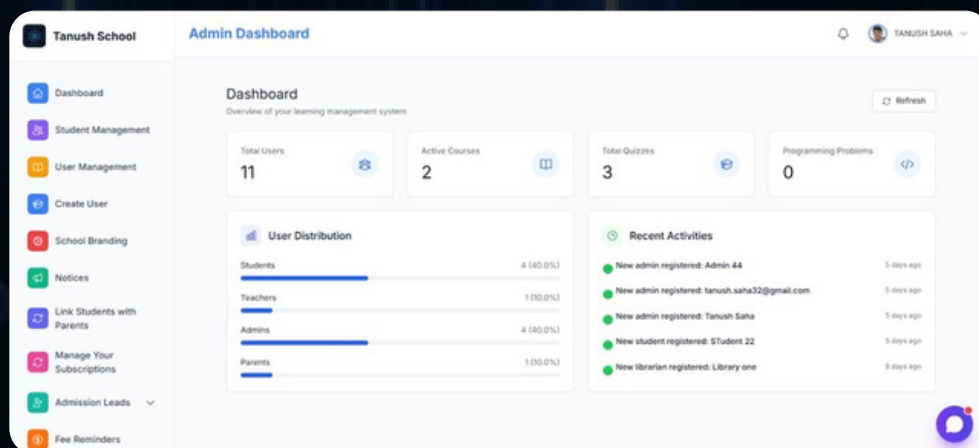
75 13

When compared to a traditional MongoDB + Node.js setup, Convex reduces backend complexity dramatically. In a typical backend function, developers verify JWTs, query collections, fetch related data, filter results, and manually structure responses. The same workflow in Convex gets compressed into a few expressive steps: authenticate with `ctx.auth`, query the database using chainable methods, collect the results, and return the data—Convex automatically manages responses and errors. This simplicity is what makes developers adopt Convex rapidly in hackathons and fast-paced projects. The author even rebuilt a full MERN bookstore app using Next.js, TypeScript, and Convex, proving that development becomes faster, cleaner, and far more enjoyable. With tools for real-time data, access control, and production-ready scalability, Convex positions itself as a next-gen backend platform for modern builders.

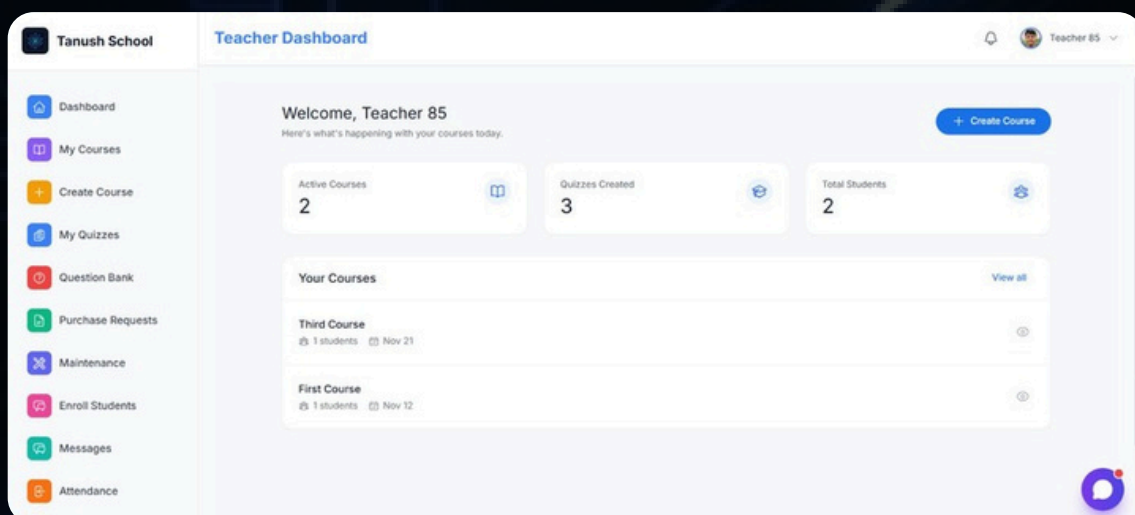
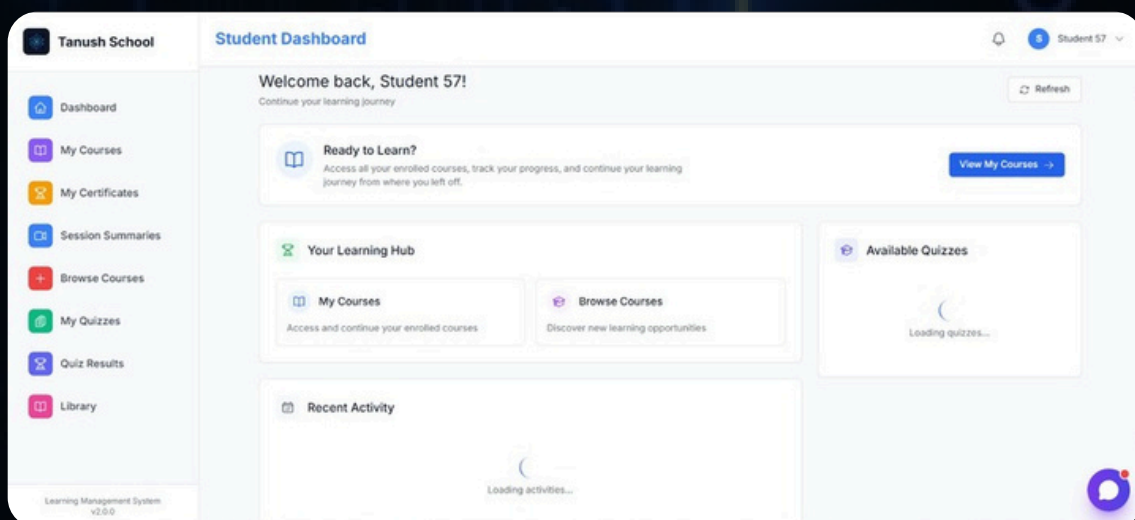
NexusOne

Tanush Saha B.Tech. IT 2023-27

NexusOne is a unified School Management and E-Learning Platform that seamlessly integrates academic administration, digital learning, library operations, and parent engagement into one powerful ecosystem. It allows Super Admins to manage the entire platform by onboarding schools, monitoring subscriptions, reviewing activity logs, and tracking system-wide performance metrics. School Admins can efficiently handle institutional workflows such as user management, course oversight, admissions processing, academic calendar setup, asset and vendor management, and maintaining school branding—ensuring smooth and organized operations across the institution.

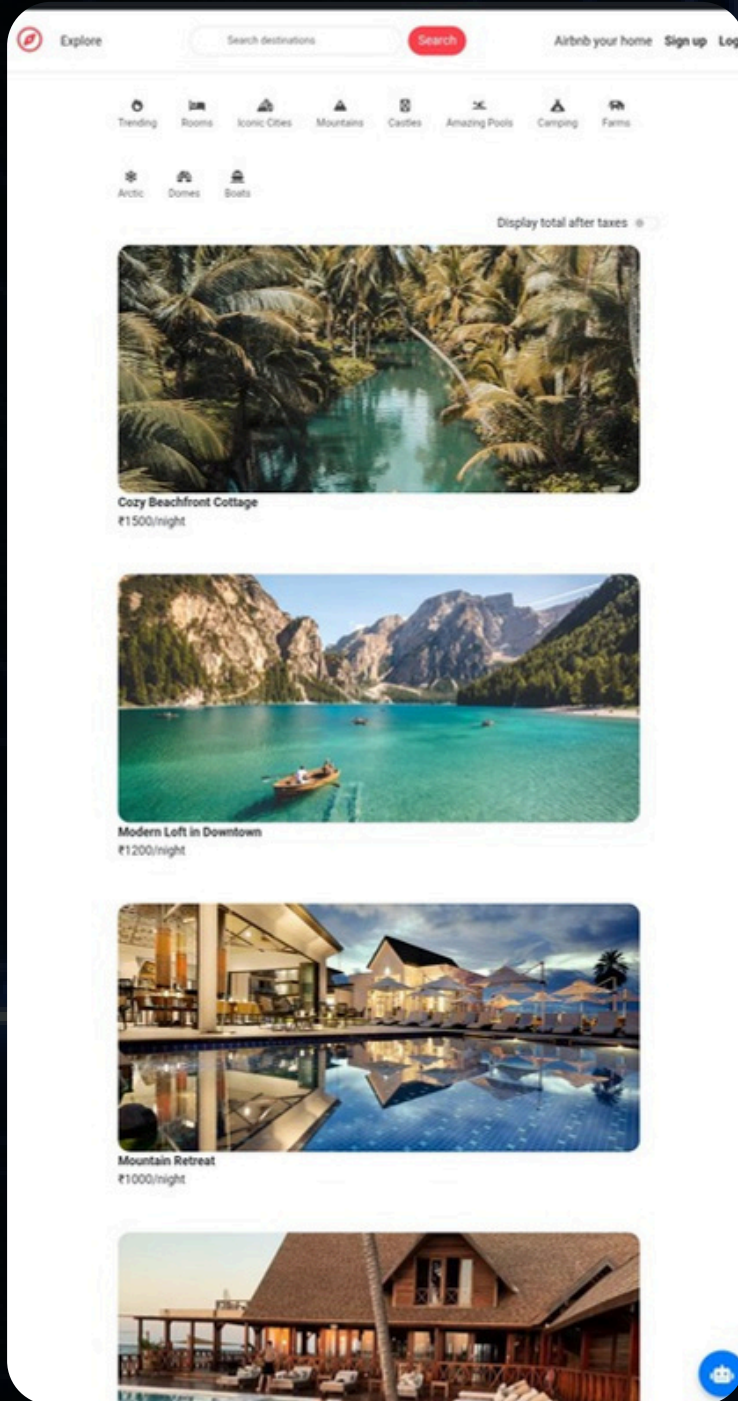


For teaching and learning, NexusOne provides a complete LMS where teachers can create courses, upload video lessons, design quizzes, manage programming problems, track attendance, grade submissions, issue certificates, and host live sessions. Students receive an interactive learning experience with access to study materials, instant quiz results, progress tracking, leaderboards, discussions, and notifications. Parents can monitor their children's performance, attendance, exam scores, and school updates, while librarians are equipped with tools for cataloging, issuing books, managing fines, and generating usage reports. Overall, NexusOne enhances the quality of education through efficient administration, enriched learning experiences, and transparent communication across all stakeholders.



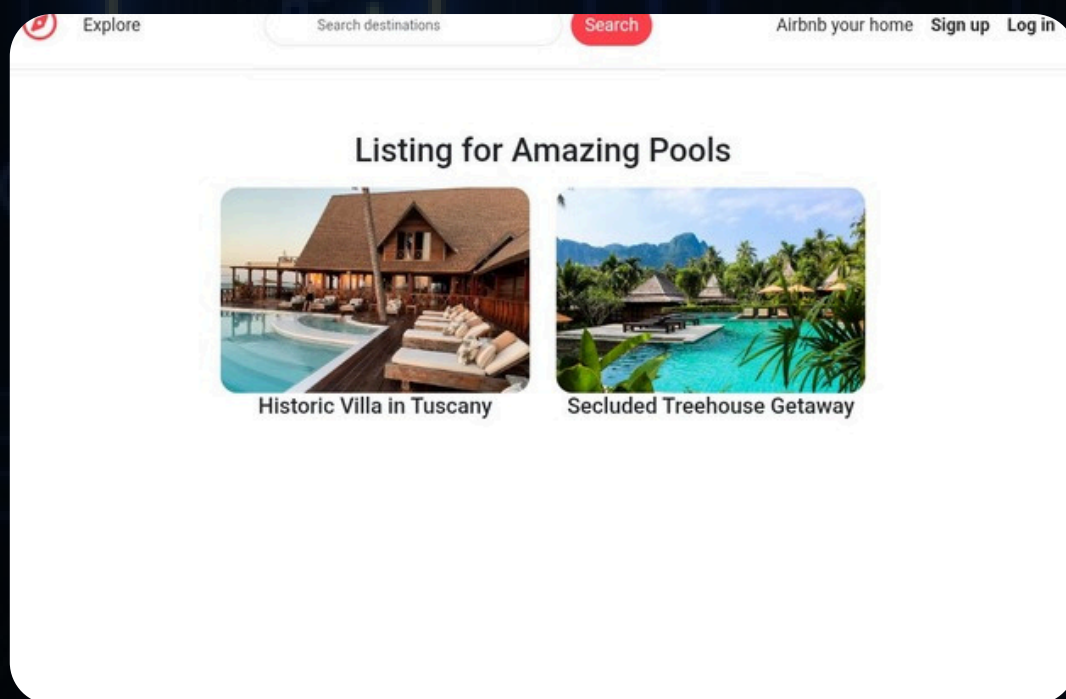
Wanderlust

Payel Mallick , Btech IT, 2023-2027



Wanderlust is a full-stack travel accommodation platform inspired by Airbnb, engineered to deliver a seamless and intuitive user experience. The application enables users to browse hotel listings with detailed descriptions, pricing insights, and community-driven reviews, all backed by a secure authentication and authorization system. With Cloudinary powering effortless image storage and Maptiler delivering precise, interactive maps, Wanderlust offers a modern, visually dynamic environment that elevates the way users explore destinations. Every interaction is supported by clean REST APIs that manage users, listings, and reviews, ensuring the platform remains scalable, reliable, and developer-friendly.

Beyond its rich feature set, Wanderlust prioritizes usability and engagement across all devices. The interface is fully responsive, adapting smoothly to mobile, tablet, and desktop users without compromising functionality. Robust validation mechanisms, flash messages, and structured error handling ensure friction-free workflows throughout the site. An integrated chatbot adds an extra layer of convenience, guiding users in real time and enhancing the overall service experience. Together, these capabilities position Wanderlust as a high-performance, user-centered application that redefines what a travel booking platform can offer.



Workshops Organised

Organized by:
School of Information
Science and Technology,
MAKAUT, West Bengal

**Technically
supported by:**
DataSpace Academy

**Online Workshop
on
Full-Stack Development**

24th June | 2023 10 AM - 1 PM | IST

Contact:
Dr. Debasis Giri
(Program Co-ordinator)
Maulana Abul Kalam Azad University
of Technology, West Bengal, India
Haringhata, Post Office- Simhat,
Police Station- Haringhata, WB- 741249

Speaker
Abhishek Das
Senior Full Stack Developer
at DataSpace Academy

Organized by:
School of Information
Science and Technology,
MAKAUT, West Bengal

**Technically
supported by:**
DataSpace Academy

**Online Workshop
on
Data Science**

22nd June | 2023 10 AM - 1 PM | IST

Contact:
Dr. Debasis Giri
(Program Co-ordinator)
Maulana Abul Kalam Azad University
of Technology, West Bengal, India
Haringhata, Post Office- Simhat,
Police Station- Haringhata, WB- 741249

Speaker
Dipangsu Mukherjee
Lead Python and Machine
Learning Analyst

**DataSpace Academy, EN 34, SEVEN HILLS BUILDING, 3rd Floor,
SALT LAKE SECTOR 5, KOLKATA 700091**

Organized by:
School of Information
Science and Technology,
MAKAUT, West Bengal

**Technically
supported by:**
DataSpace Academy

**Online Workshop
on
Machine Learning & A.I.**

23rd June | 2023 10 AM - 1 PM | IST

Contact:
Dr. Debasis Giri
(Program Co-ordinator)
Maulana Abul Kalam Azad University
of Technology, West Bengal, India
Haringhata, Post Office- Simhat,
Police Station- Haringhata, WB- 741249

Speaker
Bipul Nath
Lead Machine
Learning Analyst

Organized by:
School of Information
Science and Technology,
MAKAUT, West Bengal

**Technically
supported by:**
DataSpace Academy

**Online Workshop
on
Cybersecurity**

21st June | 2023 10 AM - 1 PM | IST

Contact:
Dr. Debasis Giri
(Program Co-ordinator)
Maulana Abul Kalam Azad University
of Technology, West Bengal, India
Haringhata, Post Office- Simhat,
Police Station- Haringhata, WB- 741249

Speaker
Davinder Singh
CEH (Certified Ethical Hacker),
CEI (Certified EC-Council Instructor),
SME in cybersecurity

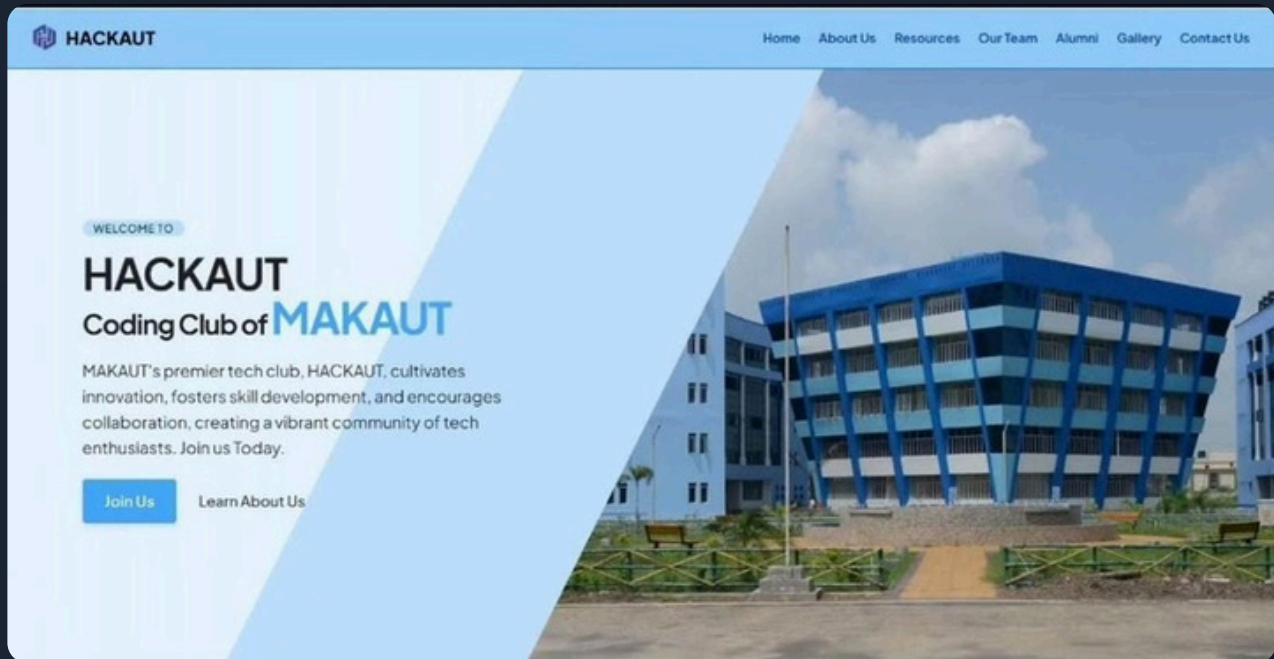
**DataSpace Academy, EN 34, SEVEN HILLS BUILDING, 3rd Floor,
SALT LAKE SECTOR 5, KOLKATA 700091**



HACKAUT

Hackaut, a student-led organization, is dedicated to introducing students to the fundamentals of coding and programming. We offer a variety of resources, hands-on workshops, and collaborative projects to help students enhance their coding skills. Our mission is to build a community of passionate tech enthusiasts and equip them with the knowledge needed to succeed in the industry. We believe coding is an essential skill for everyone and are committed to making coding education accessible to all students.





Visit - <https://hackaut.club>



GDG events



The GDG Induction is your runway into the tech ecosystem — a fast-paced onboarding sprint designed to give first years a front-row seat to what innovation actually looks like. From decoding Google technologies to showcasing real-world problem-solving, this session aligns you with the community's mission: build, learn, scale. Consider it your kickoff meeting for a year packed with hackathons, workshops, and projects that amplify your growth trajectory.

GDG events are structured as high-impact, collaboration-driven experiences that enable students to co-create, experiment, and ship ideas that matter. Every meetup integrates learning insights, hands-on execution, and networking opportunities, ensuring participants walk out with not just skills but strategic leverage. It's where creativity meets engineering rigor — and where student talent gets a platform to accelerate.





Core Team members





NON- TECHNICAL SECTION

ALMIGHTY

PRITAM SAHA,BSC-AI(3RD YEAR)



Arshad Noorani(BTECH IT 1ST YEAR)



ASTHA SAMADDAR, BTECH-IT(1ST YEAR)



PRITAM SAHA,BSC-AI(3RD YEAR)

Don't fear the demons,
Lord will fight.

BETTER DIMENSIONS



Bharat kumar
Btech.IT 2023-27

We are built
so beautiful,
ugly is a
misconception
.

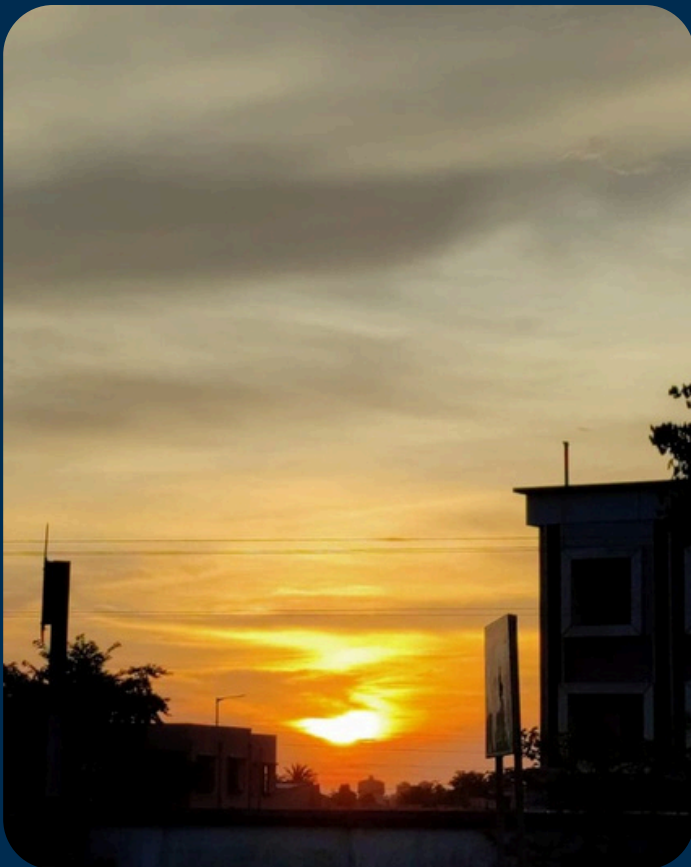


WANDER TO WONDER

Get Through

Of all the voices, mine might
get out of sight,
But, when I get to see the sun
shine different.
It is not that hard, to make
through this hostile crowd,
This agony is about to end, on
one caliginous night.
The day I laugh through tears,
The day I climb this height.

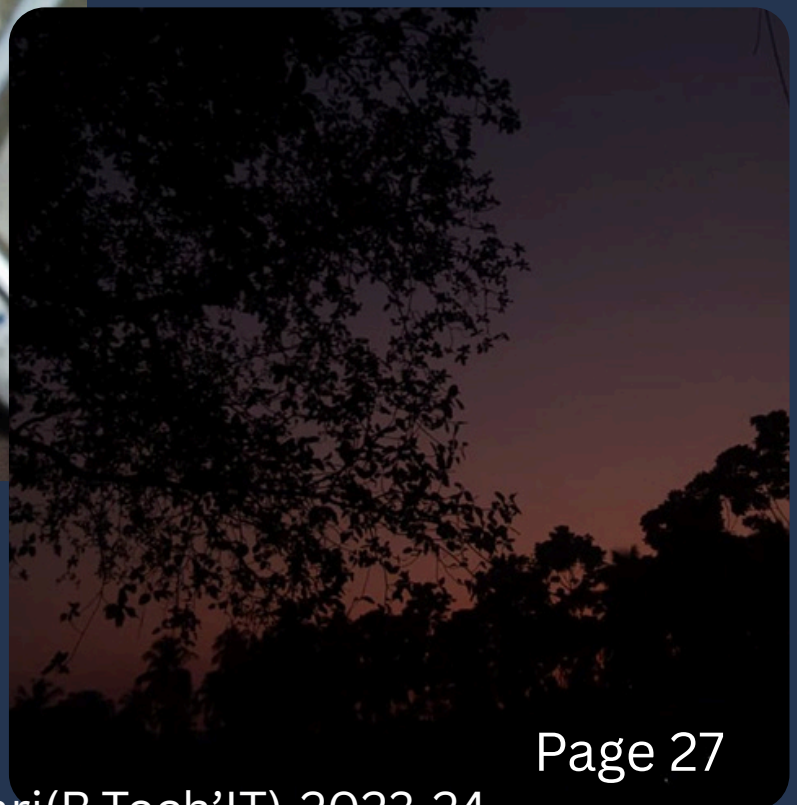
Astha Samaddar Btech IT(1st YEAR)



COULDN'T KEEP EYES AWAY

इन किरणों में मैं ऐसे मिलू,
की खो जाऊ तो फूल सी
खिलु।

এলোমেলো দিন, কেটে
চলেছে সময়।
ঠিকানা হীন, অস্পষ্ট
বিষয়।



Maa

Tujhse dur kaha mai jaunga maa
Tere pass hi laut kr aaunga maa
Ladna sikhaya hai tune hamesha
Itni aasani se haar na Maan jaunga maa

Ye duniya jaise ganda daldal
Har pal mujhe dubana chahe
Pr ek teri woh umeed hai maa
Jo har pal mujhe uthana chahe

Itni jaldi na tut jaunga maa
Ek ek ka hisaab krke aaunga maa
Kis chiz ko janm tune diya
Ye sabko bata kr aaunga maa

Ye andhera bhi beetega maa
Tera beta bhi jeetega maa
Tu bharosa rakhna apne laal pr
Ye haar ke muh se bhi Jeet kheecheega maa

Tera sir hamesha uchaa raha hai
Na usko kabhi jhukte hue dekh paunga maa
Chahe bhagwan bhi khade kyu na ho mere
saamne
Tere liye unse bhi lad jaunga maa



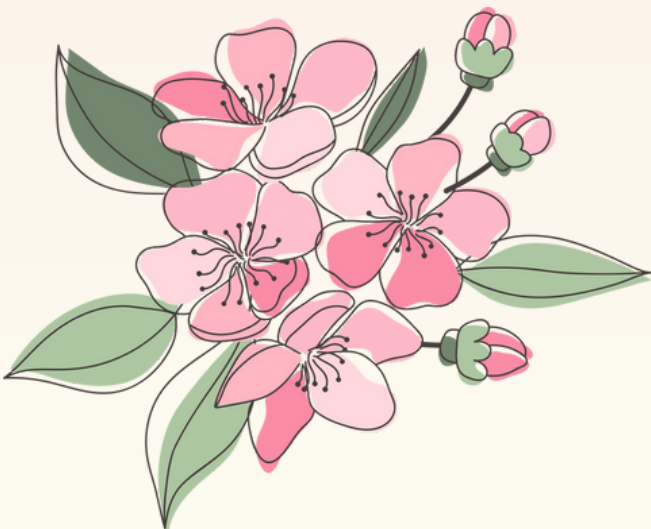
Ankit Mishra ,Btech IT,2023-27

Waise toh tu meri duniya hai
Pr ek din tu puri duniya ghum kr aayegi maa
Tab uss din tu sabko mai tera beta hu ye garv se keh
payegi maa

Tu jaanti hai mai darta hu
Mera Darr bhagane aayegi na maa ?
Tu agar naa bhi rhi mere pass kabhi
Toh mere ek awaaz pe mujhe gale se laga payegi na
maa ?

Maaf karke meri naadaniyo ko
Agke janam me bhi mujhe apna beta banayegi na
maa ?

Mujhe apna beta banayegi na maa?





Meri Preet, Mera Geet

Adarsh Kumar

*Tum taansen ki Sangeet ho
Tum hi bhavishya aur tum hi ateet ho
Tumhare Bina adhura sa hai ye mann
Kyuki tum hi toh meri ek preet ho*

*Woh nadiyo si lehrati hai
Woh Maa si Mamta dikhlati hai
Thoda toh ghamand zarur hai usse meri hone ka
Kyuki tabhi toh woh itna ithlati hai*

*Woh meri hai mai jaanta hu
Uski aankhon ki har baat bina kahe pehchanta hu
Dur hone nhi de sakta Mai usse khudse kisi keemat par
Tabhi toh Mai apni bhi saari galtiya maanta hu*

*Ek thandi subah ka sawera ho
Apna bhi ek Sundar sa basera ho
Waha sirf Ishq tera Mera ho
Na koi nafrat ka andhera ho*

*Mai maangta hu khuda se bas kch hi duaaye
Ek ki meri maa ke aankhon me kabhi aansu na aaye
Aur dusra ki meri Teri jaisi ek beti ho Jaye
Jo tere thode se daantne pr daud kar mere gale se lag Jaye*

*Jo Kalam se cheeze likh di maine usse kabhi na bol paoge
Inn sabdo ki keemat na Jano kyuki inhe tarazu pr na tol paoge*





Midnight audit of universe

Kalyani Jhaa, BTech IT

*The moon hangs low like it's stealing secrets from the world.
Streetlights flicker with that "trying to impress" energy.
A stray cat strolls past like it owns the whole city.
The wind brushes my face like a soft reminder to chill.
My playlist shuffles itself into emotional chaos.
Clouds drift overhead like they're avoiding responsibilities.
The night smells like rain that bailed last minute.
My footsteps echo like background hype.
A rogue leaf slides across the road like a stunt double.
A glowing window feels like a portal to someone's cozy universe.
The sky pretends it's not breathtaking but totally is.
Time stretches itself out just to be dramatic.
Cold air slips into my lungs like a much-needed reboot.
The world feels messy, loud, real, and alive.
And somehow, in all that chaos, I feel perfectly placed.*



समय समय की बात

- Adarsh Kumar
B.Tech(IT'1st year)

हँसता रहता हूँ अपना दर्द छु पाकर
अपने गम भूल जाता हु दूसरो को हसाकर
क्या खाक समझ पाएगी ये जि ंदगी हमें कभी
क्योकि हमने तो जि ंदगीया सवार दी अपनी जि ंदगी मि टाकर
जो आये हैं वो जायेंगे
ना आप कभी उनको रोक पाएंगे
क्या कहा ?? रुकने के लि ए आप उनको समझायेंगे
अेर मत पूछि एगा कु
छ जनाब नहीं तो आप भारी महफि ल में खुद को ही नीलाम
करवाएंगे!!
जो हमोर करीब थे वो दूर हो गए!!
थोड़ी सी महफ़ि ल क्या बदली वो कहीं और मसगूल हो गए !!
हम देते रहे रोज़ रोज़ उनको फू ल
पर हम तो उनकी ही नज़र में धूल हो गए !!
हमें उनकी चाहत थी

उनके ना होने पर भी उनकी आहट थी
पर शायद तरीका अलग था उनका प्यार जताने का
क्योकि उनको अक्सर दूसरे से हमदर्दी और हमारी गलति याँ गि नाने की आदत थी!!!
क्या फ़र्क उन्हें ये पड़ता है?? कि हमको कै सा लगता है
या सोच लि या है उन्हीने कि छोरो जो लगता है वो लगता है
कि सी दि न तुम हमारी बात समझ तो जाओगे!
पर हमें अपने करीब ना पाओगे

तब रो रो के चि ल्लाओगे कि क्या तुम वापस आओगे क्या तुम वापस आओगे
पर हमको ना पास में पाओगे...फि र तुम बस पछताओगे...फि र तुम बस पछताओगे.



अनसुनी दास्तां

- Kamran Akmal

उनको दस्तरियांपसदं आनेलगी
मनै ेवक्त माँगना छोड़ दि या
जब हमारा वक्त मांगा उन्होंनेतो ना जानेहमनेक्यों महुं मोड़ लि या
वो सारी सारी रात रोया था
जब उसनेतझु को खोया था
ना देख पाया यह कोई कि ना जानेकि तनी रातेंवो खलु ी आखँ ों सेसोया था
बेस्कीमती थी तूउसके लि ए ना तरौ कोई कीमत उसनेबतायी थी?
पर ना जानेक्यूतमु नेहर महफि ल मेंउसकी इज्जत की बोली लगाई थी !!
सारी दनिनिया नेउसेडराया था
सबनेमि लके उसेहराया था
पर टूट गया वो उस दि न जि स दि न तमु नेउसेअपनेसेपराया बताया था
कोई पछू ेकौन था वो जो तरेलि ए इतना दीवाना था
बस इतना कहना पता नहींकोई तो एक परवाना था
जि सेहर पल तरो साथ नि भाना था
पर क्या फायदा उस परवानेका जि सको तमु नेही ना पहचाना था
हम सब कहतेरहेंउसेकि वो तरेबाद बहुत पछतायेगी
तरौ यादेंउसेबहुत रुलाएगी
पर कम्बख्त कहता था...मोहब्बत बहुत करती हैवो मझु से
बारात ना सही पर मेरेजनाजेपर तो जरूर आएगी.

IT Galary



IT Galary



समाशा
हिन्दी दैनिक

04 February 2024 - 04 Feb 2024 - Page 4

आपकी बात सच के साथ जिसके बाद उसे गिरफ्तार कर लिया। इस मामले का जांच जारी है। साथ ही 40 फरवरी को बताया जा रहा है

नदिया के एनसीसी कैडेट्स तिलक घोष को पीएम ने सम्मानित किया

कोलकाता, समाज्ञा : पश्चिम बंगाल और सिक्किम निदेशालय टीम दिल्ली में आयोजित गणतंत्र दिवस-2024 कैम्प में उत्कृष्टता प्राप्त की। जिसमें एक अधिकारी, 119 कैडेट्स और छह अन्य सहायक कर्मचारी शामिल थे। नए दिल्ली में 30 दिन के गणतंत्र दिवस कैम्प को सफलतापूर्वक पूरा करने के बाद नदिया जिला के कल्याणी में स्थित एनसीसी एकेडमी में वापसी की। 49 बंगाल बटालियन एनसीसी के कम्पनी सर्जेंट मेजर तिलक घोष, जो कल्याणी के मकाऊ के एक छात्र हैं, उसको सर्वश्रेष्ठ कैडेट घोषित किया गया। उसे प्रधानमंत्री नरेंद्र मोदी ने 27 जनवरी को नए दिल्ली के कैरिप्पा पेरड ग्राउंड में प्रधानमंत्री की रैली के



दौरान सोने की मेडल और प्रशंसीय बैटन से सम्मानित किया। सीएसएम तिलक घोष की अदलबदल अपनी सीमाओं के पार जाने की इच्छा, उनका निःस्वार्थ समर्पण, और जीतने की उत्साह ने उन्हें वरिष्ठ डिवीजन आर्मी बेस्ट कैडेट के श्रेणी में उत्कृष्टता प्राप्त करने में मदद की। यह

उपलब्धि पूरे राज्य और निदेशालय को गर्वित कराती है। सीनियर अंडर ऑफिसर अनीता सुब्बा और कैडेट राहुल बासक को भी गणतंत्र दिवस कैम्प 2024 के दौरान उनके अद्वितीय प्रदर्शन के लिए डीजी एन-सीसी कमेंडेशन कार्ड से सम्मानित किया गया।

WORDS from ALUMNI



"Highly skilled faculties and friendly to all their students. Loved the environment"

-Tuhin Poddar, BTech IT,

"How do i not miss my college, it was short yet best years of my life"

-Nirvik Ghosh, BTech IT



"4 years was a long journey indeed , We grew from small branches to a big tree....Every droplet was important to fill the sea....."

-Subhrajeet Sen, BTech IT


"MAKAUT is like family, and when I say family, there's not just love but life too"

-Samiksha Kumari, BTech IT





NOTE



This publication belongs to the Department of Information Technology, Maulana Abul Kalam Azad University of Technology, West Bengal and is designed by the editorial board of students of IT under the supervision of HoD and faculty members of the department.