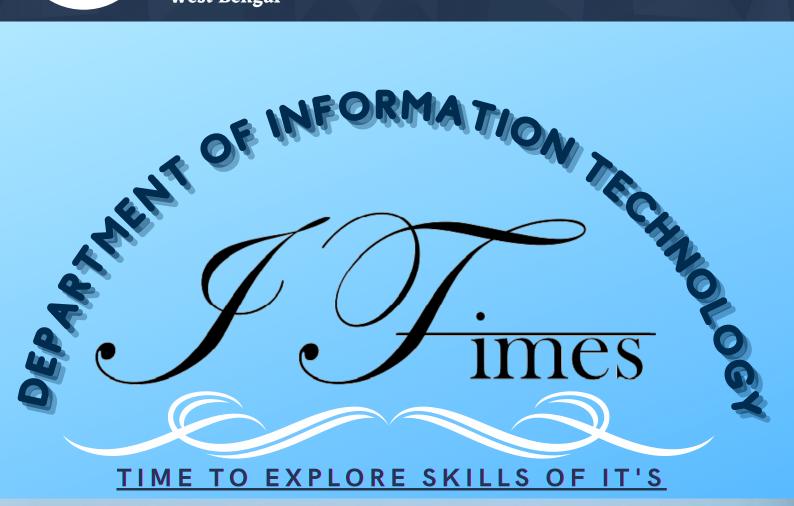


MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL

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







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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.

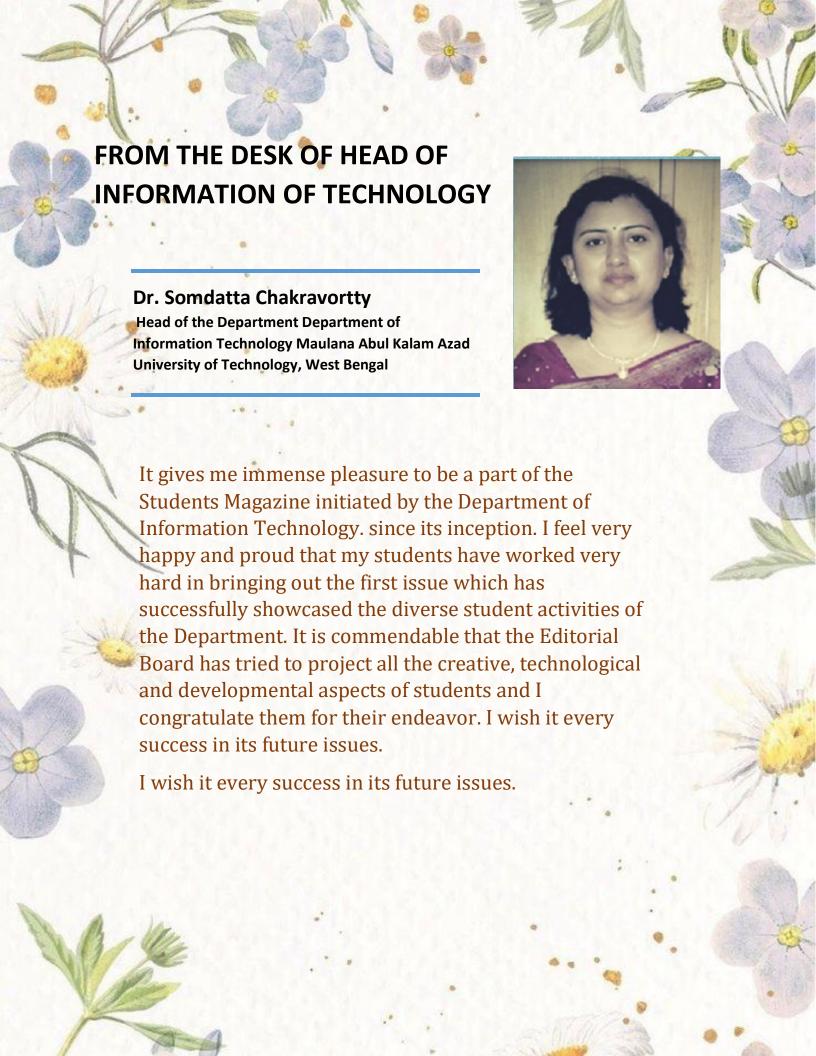


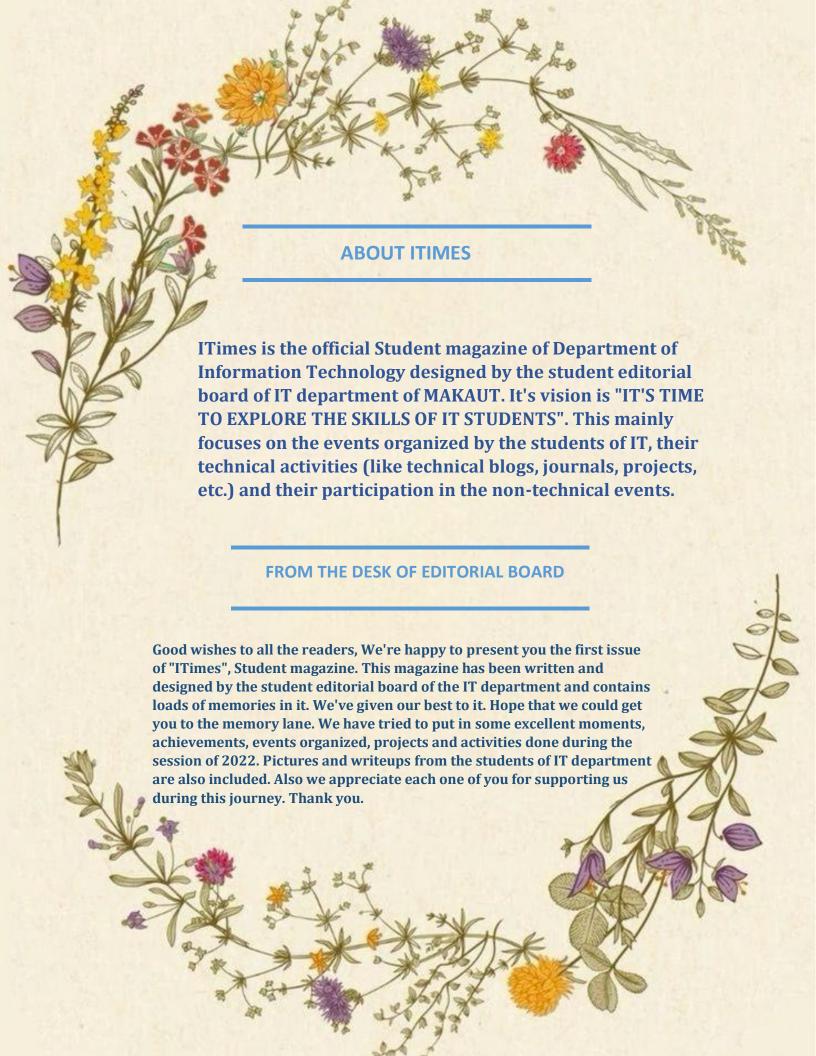
PROF.(Dr.) SAIKAT MITRA

VICE CHANCELLOR

MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WB

I am glad to know that the Department of Information Technology is going to publish the issue of its Departmental magazine. It is indeed a phenomenal achievement given the disruptions that we all have faced during the last couple of years and the huge amount of effort that is necessary to capture the variegated activities undertaken by the students in the forms of reports and articles. Information Technology plays a very significant role on the day to day life and contributes magnanimously on the growth of the society catering to its needs through its varied range of innovations, research and contribution in every field from mechanics, to medicine, agriculture, production, logistics, manufacturing etc. The publication of this Departmental student magazine is therefore a step in the right direction. I believe the Magazine will capture the attention of all the stake holders through its kaleidoscopic contents and for contributing articles and reading the Magazine it will be a wonderful experience for all. I congratulate all the students for taking this endeavor in publishing the first issue of the Departmental magazine and wish them all success in future.







WORKSHOPS CONDUCTED



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



Lead Machine Learning Analyst

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

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

MACHINE LEARNING AND A.I.

This workshop was organized by the School of Information Science and Technology, MAKAUT, West Bengal, with technical support from DataSpace Academy.

Bipul Nath brought his expertise as a machine learning professional to guide participants through fundamental and practical aspects of ML and Al technologies.

This three-hour online session aimed to introduce participants to the foundations of Machine Learning and Artificial Intelligence. Given DataSpace Academy's involvement, the





WEB DEVELOPMENT WORKSHOP

A one-day workshop focused on web development fundamentals, organized by the School of Information Science and Technology, MAKAUT, WB. The session was coordinated by **Dr. Debasis Giri** and targeted students of all domains interested in learning web development skills.

AI, MACHINE LEARNING AND PYTHON WORKSHOP

This workshop covered artificial intelligence, machine learning concepts, and Python programming. Also organized by the School of Information Science and Technology, MAKAUT, WB, under the coordination of **Dr. Debasis Giri**. The event was designed for students from higher semesters in all domains, providing them with foundational knowledge in these cutting-edge technologies.

Both events demonstrate MAKAUT's commitment to providing students with practical exposure to current industry-relevant technologies and programming skills.



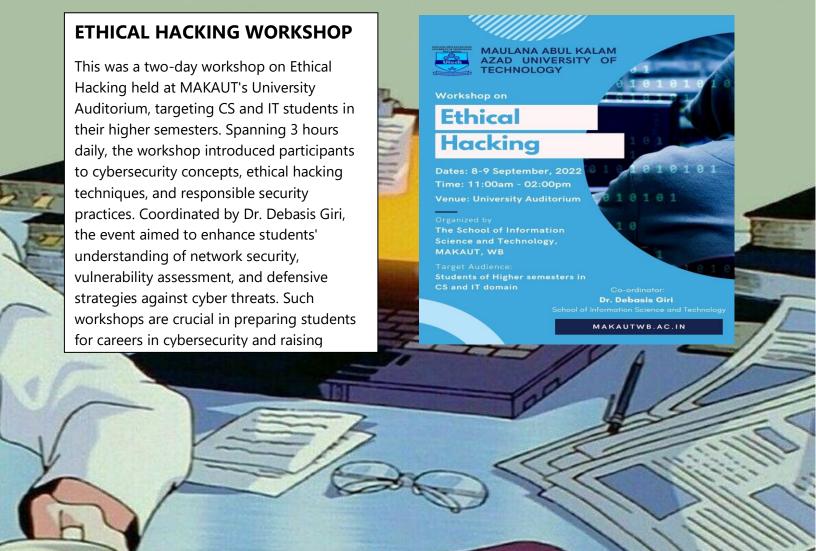




FULL STACK DEVELOPMENT WORKSHOP

This was a 3-hour online workshop on Full-Stack Development organized by MAKAUT's School of Information Science and Technology in collaboration with DataSpace Academy. The session featured Abhishek Das, a Senior Full Stack Developer, who shared practical insights into modern web development. Dr. Debasis Giri coordinated the event, which aimed to equip participants with comprehensive knowledge of both front-end and back-end

dayalanmant tachnalagies. The



TECHNICAL

SECTION

EXPLORATION OF PATTERNS OF CRIMES AGAINST WOMEN IN INDIA AND DEVELOP AN ARTIFICIAL INTELLIGENCE BASED CLASSIFICATION AND PREDICTION MODEL



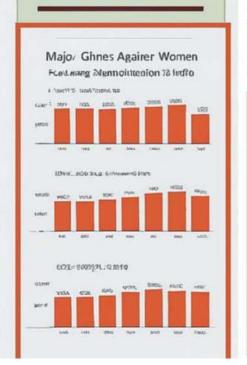
Supervisor's name Dr. Somdatia Chakravortty

Department of Information Technoogy MA AIT, W 8



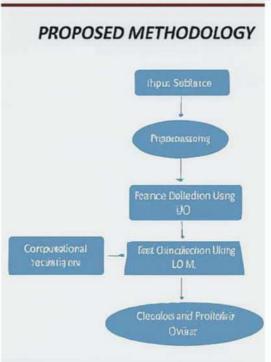
INTRODUCTION

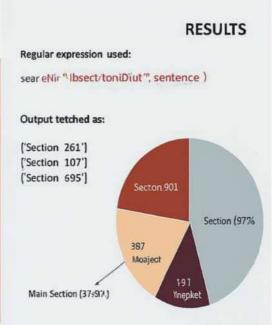
A crucial field of research thek pervides infrormation on the paned forms of viotenes and projualizer agdinst womert. Itprovides a helpful rethiavent for addiessing a patterh gacavery l:cature extractiun & and prediction moder, When indla is a country where crimes against wamen are prevolent and It addresseseffertive techniques in predtsting crimes against wonen.



Ayantika Dhar

Foll No.: 10000219907 Reg: No:: 030988 of 2018-20





CONCLUSION

A big stride has been made in the projects understanding-and repacimding and respone tocrimesagpinch women lindia it provides a helpful framawork for integatiing partern discovery, feature-extraction and an All sase ed classfication and prediction moder, depripoathecnilive society safer and more accommogating for nr women imalinala a quidt th rough theory, stur dy, collaboraton and implementation.

REFERENCES

- 1. Ravirdra B, Ghool, Sonke R. Deshpurde May 2015 Volence Against Women in India A Case for Teacher in Traming, fon 10.2139/sam. 24/335
- Gourrer, LL: 1999, Women on Crime, New Odki. Armicl Publications Pvt. Ltd.



Providing Data Privacy of E-Healthcare Data



STUDENT TRIPATHY
Oudent Triparny, 54
Deepak Pottanalk-S0

INFORMATION TECHNOLOGY

Subbam Tripathy, Rolino. 94
Deepak Pattanalk, Rall Nc. 10000121

SUPERVISOR'S NAME

Ms Savantam Sahir Assistant Professor Information Technology

Introduction

Medical records have been used in decisions, like diagnosis, traftinent. and mopoving data protepte, if was hod infloontol as wellnegelated data handling.

The lack of knowledge about electronic medical records lead to improper data alesiand or lam-er-

The integration of medical technologli making privacy concems, is protecial by law laws relluing to access, controls, and requires access controls.

Methods

Four steps in delevepting an-hearily ems.

- Creaing a web-based display using HTMLS.
 Javascop: CSS
- · reilisatd block clipher
- Accessing data owner arr cacch

Have storaged pid policies, stch as well-constructed policy and keep in mind wilting them masneed.

Using electronic records to sreduce dependency on human factors in hendling medical data and decryption.



Results

A Home page work seure login in acress proyy

Preventing unauthotorized access, by encrypting. each patient's medical recbefore storage.

Maintaining patient's right to privacy when outnour ringg medical dats.

Conclusions

The JES-DODPS electronic storage sterage and retrieval system maintains system maintaing patienica ng netoprivacy when outsourcing medical data

Bibliography

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(3) 8 Sunelarrol and B. (52411 Alirally trnslts.am Erry C amrage trerage and folicial systom



Face Recognition based Attendance System



Name	Roll No	Registration no	
Adni Das	100002147	043347	ВТ
Shwete Kumart	100002176	042840	BTcn
Anuche Dsz	100002167	043380	BTcn
Ashivite Das	20200102000	_	BTch

Under the Supervision Dr. Xumanjunan

Introduction

With the rapid growth of IoT cloud computing and AI many devices are how capable of automating a task; through machine learning. Artendance marking is one suith tosk rrounional attendance system are uses Dpendy the Local Binary Patterns Histogram (LBPH) Dige Ith the Haar cuscade and database forface recognition.

Hine method is wided an fout steps.

Datecet Creation

- 3 Face Detection
- 3. Face Recognition
- 4 Attendance Update

A presarch survey mphic mgr methods

- 1 identify students. physically present
- 2. Store a targe amount of attendance data
- 3 Prevent stuidents fron faking atten-

Results

Recults process

- Fake attend-
- · Avaidd time-
- · Sairting time
- Contactiess
- exevetiod
- Dependent
- Image qua-
- Decourage
- Artendence ouaput

Pros

- Fake attrendance
- Saves time and money
- Reduce manuai effort

Cons

- Prevention
- Time
- Consumipt
- Largence
- · Limited attendance



Face Recognition Model

Face recognition computer sysstem that castures en image or ut dep via webcam, analyzing (ac.afeatures and compares (to site stord imaget in a database.







na ▶ *

ling 3

img. 1

This method is wialy used

- Prevention
- hoop airantte
- Time & cont
 Angie
- Large storage
 Large storage
- Acceptance
 Limited access



Book Recommendation System

Hervirk	Roltin Ro,	Rohl No	Program Name	
Harshuhankar	1000020013	Rril. R.	BTeeh IT Sais 8	Undet the Supe
Nifhruscall R	10002205.	Rril. R	BTeeh ITS 990 84	
Kishan Rolkar	10000101	Rril. R	BTech ITS 998 8	Dy Survequi Dey
Prosial Ranf	10001005	Rril. R	BTech ITS 288 5	

Rril. R

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Sucha Parab

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Recommender systems are cregated to attres waner to cestaniying clanta Usees on a vartery of blannanters from also ying no exest mans the Identity morning nimo too Sangied usern pieced on a denets at a war off Or peranienos. Bons recommendation can are a lare conter until tring lost clatiabangicie sreatied varical, bal have I pales for Inorn areas witherers to barded from sligy anadolity comensistering and adopentulain tintroing both untalune have final cuscmes for shylen to une loser

The uses provided data is differed by the maccommodiale system upmoved imposts economical integering allowates to an excitate the high accuract but hill to 10 prename the exogermen inequalification of illies acrevenes are shown to the user using a hyand approach.

Objectives

- Increasing the system's preciaion
- enhansing syssisins is qualify for suggesting Loots by
- · exprending the user experienes
- · the reasing scalability

Conclusion

We propose alliveb appil tion te dregies books to class

 Mare theresertoses pendance available cmine cunerking sutatos, where rocalabe online cont, exituitia homed daucars, providing lithired reconrendations.
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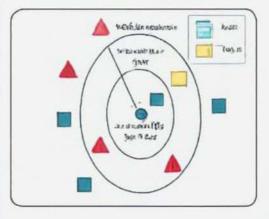
Result

BTech IT

At a ceiliaborative recommendation system, our project ts, a Book recommendation vaniant can de make collaborative intering. Comant Special Ilifening or a Mih. of With.

ing and collaborative filtering. Potn have advantages and disadvattages.

COLLARORATIVE FILTERING Similiar Ueges Recommended Dadlts



Obseatives

Data Collection

- 1. Topar ing Llibraries
- Computing the was. spp#laton.
- 3. Book Pope:
- Bod t Recommandation
 Funsthern
- 5. I/cerei Wood
- 3. Top to boble tab.
- 6, Recommended Book Tab:

Diessiventages

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Dsseleentages

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NOTE

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

EDITED BY ANNIE MANDAL AND JYOTI KUMARI, B.TECH(I.T.)2nd year (2024-28)