



Centurion
UNIVERSITY

*Shaping Lives...
Empowering Communities...*

CENTRE OF FINTECH

Research Centre

Established - 2020-2023



AVAIL A T M SERVICES



Insta Money

Withdraw money using any bank's debit card

EASY SECURE CONFIRMED RECEIPT

EASY BANKING AND ATM SERVICES ARE AVAILABLE HERE

			
			
			1000+ बैंक



QR Code for Students Fee payment (Linked to ERP)

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In Association with
Gram Tarang Inclusive Development Services Pvt. Ltd (GTIDS)

Centre for Fintech Research Centre

Centurion University of Technology and
Management, India



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Shaping Lives...
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Mentor:

Mr. Pramod Saini

Dr. K Nagesh

Dr. Dipankar Bhattacharyay

CEO: Mr. Amit Kumar

RC Coordinator: Mr. K.V.Kalyan

Members Name:

Mrs. K Rajeswari

Mr. Rakesh Ray

Mrs. Mamata G

Mr. Suvendu Nayak

Mr. M. Aswini Kumar

Mr. R. Venkata Ramana

Mr. Soma Sekhar

Ms. Shreela Dash

Message from CEO



Fintech is a leading sector in the present scenario and there are a lot of opportunities to explore. Our purpose is to make an impact that matters. This, together with our shared values, give us the foundation for who we are and what we do at fintech.

With values and purpose at our core, we believe that everything else will follow: our talent, our clients, and society will all reach their full potential, together, with us leading the way. While we are not in business just to

get bigger, being better at what we do will also make us bigger.

“Look to the future, envision the range of possibilities it may bring, and then closely examine current issues and potential moves based on that vision, while embracing aspirations to create a new future.”

I feel very privileged to be writing this message as the chief executive officer. This is a special time in our company's history as we celebrate the first booklet edition.

Amit Kumar

Prof Amit Kumar

CEO

Fintech Research Centre

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1. Introduction

The Centre of Fintech was established in the year 2020 to develop low-cost, indigenous technologies through Research & Development (R& D).

1.1. Aim and Objectives of RC

The Centre for Fintech aims to create versatile and agile environments for learning through technology and skills. The mission of the centre is to disseminate technology and skills to connect, collaborate and innovate to improve teaching and learning.

The main objectives of the Research Centre are:

- To be a well-known source of knowledge and an interchange for technologically innovative and inclusive solutions in the fields of engineering and technology.
- To foster collaboration with universities, eminent scientists, and industries on a national and worldwide level.
- To encourage the adoption of creative and business-minded ideas.
- Improving student employment prospects through collaboration between industry and academic institutions and value-added initiatives applying the latest technologies.
- Assisting industrial projects with research and development as a consultant.
- Publication of scientific findings in national and international publications with peer evaluation and patent applications.

1.2. Focus Areas

- Fintech app - InstaMoney
- Aadhar Enabled Payment Service (AEPS)
- Bharat Bill Payment Services (BBPS)
- Micro ATM (POS)
- Loan
- QR Code

- IMPS
- Insurance
- PCIDSS

1.3. The software operated by the Domain

- MYSQL, ORACLE, MATLAB, VSCODE, DEV C++, JFLAP, R, R-STUDIO, Anaconda, QGIS, Android Studio, Virtual Box, Putty, SPSS., PHP

1.4. Domain Courses

- Business Analytics
- Data Analytics
- Software Technologies
- Cyber Security
- Cloud Domain

2. Research and Projects

2.1. Completed Projects

The following modules are completed under InstaMoney Fintech APP

- a) Aadhar Enabled Payment Service (AEPS)
- b) Bharat Bill Payment Services (BBPS)
- c) QR code
- d) Loans
- e) MicroATM

2.1.1. Ongoing Projects

- a) InstaMoney FintechApp

- b) PAAS
- c) ERP
- d) PCIDSS

3. Centre Patents/ Copyrights

Applied for Trade Mark for InstaMoney Logo

4. Patents, Publications

4.1. Journals Published

- a) S. Dash., M.N, Das, D. K. Behera, An Improved Dual Steganography Hybrid Model Using Modified QVD and Difference Expansion Technique, *International Journal of Intelligent Engineering and Systems*, Vol. 14, Issue 2,2021.
- b) Suwendu Nayak, The Role of Machine Learning in Addressing Security Challenges for IoT Applications *Book Chapter*, ISBN/ISSN: 978-81-949112-9-6, pp. 188-196, publisher: Centurion University
- c) S. Dash., M.N, Das, D. K. Behera, Adaptive difference expansion image steganography for increasing capacity, *ICIC Express Letters*, Vol. 15, Issue 8, pp. 819-827,2021.
- d) S. Dash., M.N, Das, D. K. Behera” High Capacity Multi-level Image Steganography Model Using KNN Classifier, *International Journal of Advanced Science and Technology*, Vol. 29, Issue 3, pp. 11692 - 11708, 2020.
- e) Rakesh K Ray., Support Vector Machine Based Classification For Tomato Leaves Diseases *International Journal of Modern Agriculture* 2020/12/14, v-9, i-4, p-210 to 215
- f) D. K. Behera, M. Das, S. Dash, S. Swetanisha: “Weighted Hybrid Model for Product Recommender System using RBM and Matrix Factorization”, *International Journal of Advanced Science and Technology*, Vol. 29, Issue 4, pp. 4485-4493, 2020
- g) Sujata Chakravarty, Shreela Dash, Shivani Nanda: "Machine Learning Approach in Traffic Sign Recognition", In the book "Artificial Intelligence and Its Applications", pp. 180-187, 2020.
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- i) Suwendu Nayak, A Study on Data Leakage Challenges in Cloud Environment *Book Chapter*, ISBN/ISSN: 978-81-949112-9-6, pp. 150-158, publisher: Centurion University
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- k) Suwendu Nayak, A Novel secure framework for user data leakage prevention using IoT-Fog enable smart home *Intelligent & Fuzzy Systems*, IOS press

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- m) Suwendu Nayak, DGNDVI: Detection of Green Vegetation from Satellite Images with Normalized Difference Vegetation Index Method KSpringer (Journal of Wireless personal communication)
- n) Rakesh K Ray., Genetic Algorithm Based Feature Selection And Random Forest Model For Rice Yield Prediction *International Journal of Modern Agriculture* 2020/12/14, v-9, i-4, p-182-196
- o) Rakesh K Ray., Crop Yield Prediction In Precision Agriculture Using Machine Learning Techniques: A Study *International Journal of Modern Agriculture* 2020/12/14, v-9, i-4, p-197 - 209
- p) Rakesh K Ray., Random Forest FrameWork for Crop Yield Prediction *Indian Journal of Natural Sciences* 2020/5/14, v-10, i-60, p-20036-20043
- q) K V Kalyan Chakravarthy, M Vamshi Krishna, Color Objects detection in real-time with Rasberry Pi and Image Processing, SAMRIDDI Volume 13, Issue 1, 2021, Print ISSN: 2229-7111
- r) Mamata Garanayak, Agricultural Recommendation System for Crops using different machine learning regression methods, *International Journal of Agricultural and environmental information Systems*, 2021.
- s) Suwendu Kumar Nayak, A novel secure framework for user data Leakage prevention using IOT-Fog enable smart home, 2021.
- t) Suwendu Kumar Nayak, Recommendation System for Music based on Content and Popularity, *International Journal on Computer Application in Technology (IJCAT)*, 2021
- u) Shreela Dash, Adaptive difference expansion image stenography for increasing capacity, *ICIC Express Letters (Accepted)*, 2021.
- v) Shreela Dash, High Capacity Multi-level Image Stenography Model Using Neural Network, (Submitted), 2021.



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CORPORATE OFFICE

**HIG – 4 | JAYADEV VIHAR | OPPOSITE PAL HEIGHTS | BHUBANESWAR |
KHURDA | ODISHA | INDIA | PIN – 752050**

CAMPUS

**BHUBANESWAR | PARALAKHEMUNDI | RAYAGADA | BOLANGIR
BALASORE | CHATRAPUR |**

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