

# CHANDRIMA PAUL

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## EDUCATION

<b>Tezpur University</b> B.Tech, Computer Science & Engineering	<b>CGPA: 8.19</b>	Napaam, Assam 11/2021 - Present
<b>Indian School of Ethical Hacking</b> Distance Learning, Cybersecurity and Penetration Testing		Kolkata, West Bengal 07/2020 - Present

## CURRENT PROJECTS

- Vehicle Trajectory Prediction using Tiny-ML models for highway surveillance cameras
- Medical Digital Twin - using federated Learning with Bandwidth Orchestration

## LEADERSHIP ROLES

<b>Facilitator - Google Cloud Gen AI Study Jam</b> Our Club landed in the 'Gold Tier' with a total of 82 completions.	GDSC - Tezpur University
<b>Co-organiser - All-India YUVAMANTHAN Hackathon series</b> <b>Co-organiser - Annual CyberWeekend</b>	Tezpur University Computer Society the Navalogy Lab - TU

## INTERNSHIPS

<b>ScholarsColab.com, SysMat Research Solutions LLP</b> Optimization of Power flow in Grid Systems	Gurgaon, Haryana 06/2024 - 08/2024
<ul style="list-style-type: none"><li>• We used Hippopotamus Optimization Algorithm to maneuver the power flow through benchmark IEEE bus systems</li><li>• We contrasted the results with those obtained from Differential Evolution in the same approach</li><li>• <b>Result:</b> Our approach achieved much faster and smoother convergence</li></ul>	
<b>Swan Labs, IIT Kharagpur</b> Airport Authentication System	Kharagpur, West Bengal 06/2023 - 09/2023
<ul style="list-style-type: none"><li>• The verification was implemented through facial re-identification over an integrated Cloud-Ethereum environment</li><li>• We implemented Facial Re-identification through three different Algorithms - FaceNet, ArcFace and Dlib's Facial Recognition</li></ul>	

## PUBLICATIONS

### iRASA: Fog Scheduling With Congregation of MVO and PSO

This work achieved **2nd Prize** in the **Best Paper Category** at the **IEEE I3CS Conference** among 83 accepted papers

- Improved Resource Utilisation using a congregation of Multiverse optimization (MVO) and Particle Swarm optimization (PSO) for optimization of fog task scheduling
- MVO dynamically classifies tasks with a machine-learning model, allocating resources based on preset classes, and updates a hyper-graph using PSO to select the best resource for each task

### Blockchain based Airport Facial Verification with Protocol Diversification

In Collaboration with **SWAN Labs** at **IIT Kharagpur**

Accepted at the **INDICON 2024**

## TECHNICAL SKILLS

**Development** - **ReactJS, MongoDB, Hadoop**  
**Programming Languages** - **Python, Matlab, MicroC, C++**  
**Research Tech & Methodology**  
**Optimization Algorithms**  
**Network Systems Engineering**  
**Ethical Hacking and Penetration Testing**

