

ASSISTANT PROFESSOR

Swarup Kumar Hazra Choudhury

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Research Interests:

Object Recognition, Deep Learning, Machine Learning, Artificial Intelligence, Information Security & Cryptography, Internet of Things (IoT), Data science & Data Mining, Blockchain Technology, Image Processing, Web development & Cloud Computing, software engineering, Programming.

EXPERIENCE:

Academics: 18+ yrs

Industry: --- 1 yrs

Education:

Pursuing PhD(CSE), NIT, DGP.

M.Tech (Information Security), NIT, DGP.

BE, UIT, The University of Burdwan.



Courses Taught:

Pattern Recognition, Programming for Problem Solving using C programming, DBMS, OS, Data Structure, Information Security, Object Oriented Programming, Image Processing, Artificial Intelligence, Machine Learning, Cryptography, Deep Learning, Web Development, Cloud Computing, Software Engineering, C++ Programming, Java Programming & Python Programming, Internet Technology, Cyber Security, Computer Architecture, Computer Organization.

Projects Handled:

Human Behavior Prediction (Domain -Pattern Recognition),
Neura-phrase: A Conversational AI (Domain: AI),
Cancer Detection System (Domain: Machine Learning)-2024,
Domain AI: Legal Assistant for Real-Time Document Summarization-2023,
Smart Negotiator: AI-based Bargaining Bot for E-Commerce,
Cognitive AI Companion for Mental Wellness Monitoring,
AI-Powered Career Counselor Using Semantic,
2022- Resume Analysis, Autonomous Curriculum Generator for Personalized Learning
Machine Learning (ML)-Based Predictive Maintenance for Industrial IoT Devices
Credit Risk Classifier Using Ensemble Learning

ML-Powered Real-Time Stock Sentiment Tracker
Energy Consumption Optimizer for Smart Homes
ML-Driven Dynamic Pricing Model for Online Retail
Deep Learning (DL), DeepFake Detector using CNN and Spatio-Temporal Analysis
Multi-Language Handwriting Recognition using Deep RNNs
Neural Style Transfer for Artistic Image Generation
Deep Learning-based Tumor Detection from MRI Scans
Autonomous Drone Navigation using Deep Reinforcement Learning
Domain: Pattern Recognition (PR) Human Activity Recognition Using Wearable Sensor Data
Signature Verification System Using Siamese Networks
Facial Emotion Recognition with Real-Time Feedback
Gesture-Based Home Automation System Using PR Algorithms
Traffic Sign Pattern Detection for Smart Vehicles & many more.

Research Publications:

S. K. H. Choudhury and D. Nandi, "An Adaptive Median-Weighted Filtering Technique for Speckle Noise Reduction in Ultrasound Images," IEEE Trans. Image Process., vol. 32, no. 4, pp. 2345–2356, Apr. 2011.

Additional Responsibilities:

HoD (AIML), NBA, Technical Grooming Committee, Project Committee

Awards Obtained:

WJCF at BCET since 2023

Best Faculty Award by Infosys at Bhubaneswar in 2015.

WEBEL Certified JAVA Developer since 2006.