

FACULTY PROFILE

1. Name: SOUMEN ROY
2. Father's Name: BHOLA NATH ROY
3. Designation: SACT
4. Office Address: Bagnan College, Khalore, P.O.& P.S. Bagnan,
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Photograph

8. Academic & Professional Qualifications:

Sl. No.	Name of Examination Passed	Institution (Studied/Appeared From)	Name of Board/University/Institute	Year of Passing	Class/Grade
1.	Ph.D.	Department of Computer Science and Engineering	University of Calcutta	2024	Awarded on 22nd January 2024
2.	MCA	C.V.Raman College of Engineering	B.P.U.T	2009	8.35 (CGPA)
3.	B.Sc. (Hons.)	Panskura Banamali College	Vidyasagar University	2006	53.12%
4.	10+2	Bangalpur U.C. High School	W.B.C.H.S.E, West Bengal	2003	53.90%
5.	10th	Bhurah B.N.S. High School	W.B.C.S.E, West Bengal	2001	59.50%

9. Teaching Experiences:

Sl. No.	Name of College /University	Designation	District	Nature of Appointment	Period/Academic Session
1.	Bagnan College	CWTT	Howrah	Govt. Approved	2010 to 2020
2.	Bagnan College	SACT	Howrah	Govt. Approved	2020 to 2024

10. Participation in International, National, State & Regional Level Seminars/Workshops:

Sl.No.	International Seminar / Conference	National Seminar/Conference	State Level Seminar/Workshop	Regional & Institutional Level Seminar/Workshops/ Training
Total No. of Participation (Approx.)	13	0	2	3

11. Papers Presented in Conferences/ Seminars

Sl. No.	Presentation of Papers	Title of Paper/Discussant/Speaker	Institutions Organised	Year
1.	Science Congress	A new era in Parkinson's disease screening at home	31st West Bengal State Science Congress 2023-24	2024
2.	Science Congress	A child-friendly approach to smartphone regulation	6th Regional Science and Technology Congress 2023-24	2024
3.	Science Congress	Simplest Way to Diagnosis Neural Disorders at Home	30th West Bengal State Science Congress 2022-23	2023
4.	Conference	A unique approach towards keystroke dynamics based entry-point user access control	ACSS 2022, University of Calcutta	2022
5.	Conference	Deep Learning approach in predicting personal traits based on the way user type on touchscreen	CIPR 2019, IEST, Shibpur	2019
6.	Conference	Identifying soft biometric traits through typing pattern on touchscreen phone	CSI 2018, Science City, Kolkata	2018
7.	Conference	Analysis of typing pattern in identifying soft biometric information and its impact in user recognition	ICITAM 2017, Haldia Institute of Technology	2017
8.	Conference	Password recovery mechanism based on keystroke dynamics	INDIA 2015, Kalyani University	2015
9.	Conference	Performance Evaluation of Various Distance-based Data-Mining Classifiers on Typing Patterns for User Authentication / Identification	ITBI 2015, Goa	2015

10.	Conference	Performance Perspective of Different Classifiers on Different Keystroke Datasets	ICRTET 2015, Andhra Pradesh	2015
11.	Conference	Free-text user authentication technique through keystroke dynamics	ICHPCA 2014, C.V. Raman College of Engineering, Bhubaneswar	2014
12.	Conference	Combined user authentication technique	ICRTST 2013, College of Engineering and Management, Kolaghat	2013
13.	Conference	Rhythmic password-based cryptosystem	ICCS 2013, University of Burdwan	2013
14.	Conference	Modified Knowledge-based User Authentication Technique	IMBIC 2013, Kolkata	2013
15.	Conference	Intelligent Road Traffic Control Using Multi-Level Feedback Queue	CSI 2012, Science City	2012

12. Publications in Journal

Sl. No.	Title of the article	Author (s)	Name of the Journal	Vol./ Issue	Year
1.	Imbalanced ensemble learning in determining Parkinson's disease using keystroke dynamics	Soumen Roy, Utpal Roy, Devadatta Sinha, and Rajat Kumar Pal	Expert Systems with Applications	vol. 217	2023
2.	A systematic literature review on latest keystroke dynamics based models	Soumen Roy, Jitesh Pradhan, Abhinav Kumar, Dibya Ranjan Das Adhikary, Utpal Roy, Devadatta Sinha, and Rajat Kumar Pal	IEEE Access	vol. 10	2022
3.	A unique approach towards keystroke dynamics based entry-point user access control	Soumen Roy, Utpal Roy, Devadatta Sinha, and Rajat Kumar Pal	International Journal of Biometrics	vol. 16	2024
4.	Keystroke dynamics as a language profiling tool: Identifying mother tongue of unknown internet users	Ioannis Tsimperidis, Denitsa Grunova, Soumen Roy, and Lefteris Moussiades	Telecom	vol. 4	2023
5.	Identifying age group and gender based on activities on touchscreen	Soumen Roy, Devadatta Sinha, and Utpal Roy	International Journal of Biometrics	vol. 14	2021
6.	The probability of predicting personality traits by the way user types on touch screen	Soumen Roy, Utpal Roy, and Devadatta Sinha	Innovations in Systems and Software Engineering,	vol. 15	2019

13. Membership in Professional Bodies/Associations:

Sl. No.	Name of Associations	Membership
1.	BOS Member of BCA (Panskura Banamali College)	
2.		

14. Area of Interest & Others Involvement (maximum 100 words):

Research revolves around Keystroke Dynamics, investigating how computing users interact with keyboards and touch screens and their applications in entry-point access control, active user authentication, and extracting valuable information with the help of AI/ML techniques. Received four awards for Outstanding Scientific Model and Outstanding Research Paper from DSBT, Govt. of West Bengal and DST SERB sponsored International Conference. Performed as a reviewer for several high-indexed Journals and Conferences including Information Fusion, Expert Systems with Applications, Engineering Applications of Artificial Intelligence, Pattern Recognition Letters, IEEE Access, World Wide Web, ArtnHCI 2023, and more.