

SUMON DEY

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CAREER OBJECTIVE

To be part of an academic organization where I can share my experience and gather new knowledge about computer science and technology while being resourceful to the field of academics, education and research & development.

ACADEMIC DETAILS

Examination	Degree	University	Year	Percentage (%)
Doctoral Degree	Ph.D.	University of North Bengal	Pursuing	81.20 [Coursework]
Post-Graduation	MCA	University of North Bengal	2017	74.92
Graduation	BCA	University of Burdwan	2013	72.48
Higher Secondary	10+2	WBCHSE	2008	69.80
Secondary	Madhyamik	WBBSE	2006	82.00

ADDITIONAL QUALIFICATION/CERTIFICATIONS

- NTA UGC-NET(LS), NFOBC-JRF Qualified in June-2020
- GATE (Computer Science and Engineering)-2018 conducted by Indian Institute of Technology, Guwahati

RESEARCH AND PUBLICATIONS

- Sumon Dey and Swarup Das, "Landslide Susceptibility Mapping through Hyperparameter Optimized Bagging and Boosting Ensembles: Case Study of NH-10, West Bengal, India" for "Geo-Environmental Hazards using AI-enabled Geospatial Techniques and Earth Observation Systems (Advances in Geographic Information Science book series)", AGE-2023. [Accepted and Yet to be Published]
- Deepanjan Sen, Swarup Das, Sumon Dey, "Flood Susceptibility Zonation using Geospatial Frequency Ratio and Artificial Neural Network techniques within Himalayan Terai Region: A Comparative Exploration", International Conference on Computational Technologies and Electronics (ICCTE-2023), Organised by Department of Computer Science and Technology, University of North Bengal, Darjeeling, West Bengal, India, November 23-25, 2023 [Springer]
- Sumon Dey and Swarup Das, "Performance Assessment of Multivariate Statistical and Bagging Ensembles in Landslide Susceptibility Mapping: Case Study of National Highway-10," 2023 International Conference on Device Intelligence, Computing and Communication Technologies, (DICCT), Dehradun, India, 2023, pp. 284-289, [IEEE Explore, DOI: <https://doi.org/10.1109/DICCT56244.2023.10110089>].
- Sumon Dey, Swarup Das, "Assessment of Slope Instability in a Hilly Terrain: A Logistic regression and Random Forest Based Approach", Fifth International Conference on Computational Intelligence in Communications and Business Analytics (CICBA-2023), organized by Department of Computer Science & Engineering, Kalyani Govt. Engineering College, Kalyani, West Bengal, India, January 26-27, 2023 [Springer, DOI: https://doi.org/10.1007/978-3-031-48876-4_2]
- Sumon Dey, Swarup Das, "Assessment of Slope Instability in Darjeeling Himalayan Region: Comparative Evaluation of Bi-Variate Statistical Methodologies", International Conference on Artificial Intelligence and Data Engineering (AIDE-2022), organized by NMAM Institute of Technology, NITTE, Karkala, Karnataka, in Technical Collaboration with IEEE Bangalore Section, December 22-23, 2022, pp. 68-73 [IEEE Xplore, DOI: <https://doi.org/10.1109/AIDE57180.2022.10060013>]
- Sumon Dey, Swarup Das, "Slope Instability Assessment of a Hilly Terrain using Hybrid Ensemble Machine Learning Model", International Conference on Augmented Intelligence and Sustainable Systems (ICAISS-2022), organized by CARE College of Engineering & Department of CSE, CARE College of Engineering, Trichy, India in Technical Collaboration with IEEE Madras Section, November 24-26, 2022, pp. 394-399 [IEEE Xplore, DOI: <https://doi.org/10.1109/ICAISS55157.2022.10010793>]

- **Sumon Dey, Swarup Das, "Mapping Landslide Vulnerability in Kali Khola Catchment: A Frequency Ratio Approach with Integrated machine Learning Ensembles"**, International Conference on Recent Advances in Computing Sciences – 2022 (RACS-2022), organized by **School of Computer Application, Lovely Professional University, Punjab**, November 4-5, 2022, pp. 211-215 [Taylor and Francis (CRC Press), DOI: <http://dx.doi.org/10.1201/9781003405573-37>]
- **Sumon Dey, Swarup Das, "Comparative Exploration of Statistical Techniques for Landslide Identification and Zonation Mapping and Assessment: A Critical Review"**, International Symposium on Artificial Intelligence (ISAI-2022), organized by **Computer Society of India, Kolkata Chapter** in association with **Department of Computer Science and Engineering, Haldia Institute of Technology, West Bengal**, February 17-19, 2022 [Springer, DOI: https://doi.org/10.1007/978-3-031-22485-0_5]
- **Sumon Dey, Dipjyoti Das, "Exploring the Transformative Nature of Artificial Intelligence in the Contemporary Academic Establishment"**, National Conference on Innovations in ICT and Media Communication, organized by Department of Viscom and Animation, Dr. M.G.R. Educational and Research Institute, April 16, 2019
- **Sumon Dey, Ratnakirti Roy, "Autofocus Technologies in Digital Cameras: A Comparative Study"**, **Inter-national Journal for Research in Engineering Application Management (IJREAM)**, Special Issue - ICFPI- 2018, pp. 43-46, DOI-[10.18231/2454-9150.2018.0924](https://doi.org/10.18231/2454-9150.2018.0924)
- **Agnihotri Roy, Sumon Dey, Ratnakirti Roy, "A Big Data Driven Predictive Mathematical Model for Optimizing Students Performance in Under-Graduate Level Examinations in India"**, **2nd International Conference on Advances in Computational Mathematics (ICACM-2018)**, Jointly organized by **Central Department of Mathematics, Tribhuvan University (TU), Nepal and South Asian University (SAU), India**, December 23-24, 2018

WORKSHOPS AND SEMINARS

- Participation in the **"Fourth International Seminar on Intelligent Computing (ISIC)-2021"**, organized by the **Department of Computer Science and Engineering, Assam University, Silchar**, in Technical Collaboration with **IEEE Computational Intelligence Society, Kolkata**, October 4, 2021
- Participation in **"International Webinar on Emerging Trends in Computational Technologies (IWETCT)"**, organized by the **Department of Computer Science and Application, University of North Bengal** in Collaboration with **IEEE CIS Kolkata Chapter & Computer Society of India, Siliguri Chapter**, October 1-3, 2021
- Participation in National Webinar on **"How to Pick your Problem Statement"**, jointly organized by Department of Computer Science & Office of International Relations, Dr. M.G.R. Educational and Research Institute, May 26, 2021

EXPERIENCE (ACADEMIC/INDUSTRIAL)

- **Assistant Professor (Dept. of Computer Science & Engineering, Akal College of Engineering & Technology, Eternal University)**, Sirmour, Himachal Pradesh (*August-'23 – till date*)
- **Junior Research Fellow, (Department of Computer Science & Technology, University of North Bengal)**, Raja Rammohunpur, Siliguri, Darjeeling (*January-'20 – August-'23*)
- **Assistant Professor & Head of the Department (Department of Computer Application, Inspiria Knowledge Campus)**, Siliguri, Darjeeling (*August-'17 - July-'21*)
- **Member of the Steering Committee for 3rd National Conference of Inspiria Research Excellence Series (IRES-2021)- "Comprehending Interdisciplinary Spheres in the Digital Age"**, held on 9-10th April, 2021, in collaboration with **International Journal of Business and Globalisation (IJBG)** [ISSN(Online) - 1753-3635; ISSN(Print) - 1753-3627] [Scopus]
- **Member of the Steering Committee for 2nd National Conference of Inspiria Research Excellence Series (IRES- 2020)- "Comprehending Interdisciplinary Spheres in the Digital Age"**, held on 6-7th February, 2020, in collaboration with Humanities and Social Science Studies (HSSS) Journal [ISSN-2319-829X] [UGC-CareList,2019]
- **iOS Developer at T-Web Exponent Services Pvt. Ltd.**, Kolkata (*December-'16 - August-'17*)
- **Senior Computer Instructor (TGT-Computer Science)**, Kendriya Vidyalaya, Bengdubi, Guwahati Region (*June-'16 - December-'16*)

ROLES AND RESPONSIBILITIES

- **Member of the Examination Cell, Inspiria knowledge Campus**, Siliguri, Darjeeling (*August-'17 - July-'21*)
- **Member of the Research and Development Cell, Inspiria knowledge Campus**, Siliguri, Darjeeling (*July-'18 -July-'21*)

FIELDS OF INTEREST

- Remote Sensing and GIS
- Computational Photography
- Object Oriented Analysis and Design
- Algorithm Analysis and Design
- Data Structure

TECHNICAL SKILLS

- **Languages** (C, C++, Java, Objective-C, Swift 4.0)
- **Database** (Oracle, MySQL, PostgreSQL, Google Firebase)
- **Script** (R, Python, Shell)
- **Tools** (Eclipse, PyCharm, XCode).

MAJOR PROJECTS AND SEMINAR

- **North Bengal University Online Counselling System-NBUOCS** (University Live Project)
(*Guide: Assoc. Prof. Dr. Ardhendu Mandal, September-'16 - April-'17*)
 - Description-A project to ease the administrative work of Student counselling for different departments, and reduce the manual hazards.
- **North Bengal University Undergraduate Student Registration Automation System-NBUUSRAS** (University Live Project)
(*Guide: Assoc. Prof. Dr. Ardhendu Mandal, April-'15 - December-'15*)
 - Description-A standalone system in which student records of colleges are read from an excel sheet and stored to the database. On the user side an end-user has the choice for copying data from excel sheet, prepare registration certificate, and print the same one by one and in bulk.
- **Columnar Database Management System (MCA-Master of Computer Application, Seminar)**
(*Guide: Assoc. Prof. Dr. Ardhendu Mandal, March'17 - May'17*)
 - Description-Emphasizing the utilities, challenges of using Columnar Database in contrast to the Traditional Row Oriented Database
- **A case study on Image Processing (Transformation of messages through images by using the method of Steganography) (MCA-Master of Computer Application, Case Study)**
(*Guide: Assoc. Prof. Dr. Ardhendu Mandal*)
 - Description-Review Study on different techniques for transformation of messages through images by using the method of Steganography

MOBILE APPLICATIONS DEVELOPED

- **Hajj and Umraah** (A navigation App to monitor and help Hajjis to ease their pilgrimage. This application will help Hajjis to be connected with their friends and families.)

Supporting URL - <https://www.virtualcoding.com.sa>
- **All Public Art (APA)** (An App to encourage the artists all around the world to upload and post their artworks for view only, for sale. Like social networking sites such as Facebook, Instagram artworks can be shared to friends and user can follow other users. A user can discover artists as well as artworks by searching the location of his/her choice. A user can post an event for exhibition of his/her artworks as well and invite other friends to come and enjoy the exhibition. Also, art news from all around the globe can be monitored and visited with their details. There are modules in the App where a user can invite as well as follow their friends through Facebook and phone contacts.)

Supporting URL - <http://www.allpublicart.com>

STRENGTHS

Positive Attitude, Social Interaction, Hardworking, Analytical Thinking.

INTEREST AND HOBBIES

- Photography
- Playing Chess.
- Travelling
- Listening Music

PERSONAL DETAILS

Father's name : Late Prabhat Dey
Mother's name : Mrs. Mamani Dey
Spouse Name : Mrs. Madhushree Saha
Date of Birth : 2nd of May , 1991
Gender : Male
Religion : Hindu
Nationality : Indian
Languages Known : Bengali , English , Hindi
Marital Status : Married

DECLARATION

I hereby declare that the above-mentioned information is correct up to the best of my knowledge and I bear the responsibility for the correctness of the above-mentioned particulars.

Date- 01st Dec, 2023

Sumon Dey

Place- Himachal Pradesh

Signature