



# Shawni Dutta

College Whole Time Teacher  
Department of Computer Science

## Contact Information

**Contact Address (Office)**  
5 Lala Lajpat Rai Sarani,  
Kolkata: 700 020

**Contact Number (Office)**  
(033) 4413-1525

**E-Mail ID (Official)**  
shawni.dutta@thebges.edu.in

## Specialization

- Machine Learning



**THE BHAWANIPUR  
EDUCATION SOCIETY COLLEGE**

## Biographical Sketch

Shawni Dutta is currently associated as College Whole Time Teacher, in the Department Computer Science, The Bhawanipur Education Society College, affiliated to University of Calcutta. She has completed her Bachelor Degree in Computer Science from Asutosh College, Kolkata affiliated to University of Calcutta and completed her Masters in Computer Science from St. Xavier's College (Autonomous), Kolkata. She has also qualified National Eligibility Test (NET) conducted by University Grants Commission (UGC) for Assistant Professor. Before joining to this institution she worked as a Guest Lecturer in Department of Computer Science, Asutosh College. She has published research papers in numerous reputed international journals. She has also authored book chapters, books for some prestigious publishing houses.

## Academic Qualifications

Degree				
M.Sc	St. Xavier's College (Autonomous), Kolkata	1 <sup>st</sup> Class	Computer Science	2018
B.Sc. (Honours)	Asutosh College, Kolkata.	1 <sup>st</sup> Class	Computer Science	2016

## Exams Qualified

Qualified UGC-NET in Computer Science in January, 2019 for Assistant Professor.

## Position Holding (Full Time)

College Whole Time Teacher, Department of Computer Science, The Bhawanipur Education Society.College,



# Shawni Dutta

College Whole Time Teacher  
Department of Computer Science

## Guest Appointment

Guest Faculty of Computer Science, Asutosh College, University of Calcutta, July 2018 - January 2019.

## Administrative Assignment

- Carried out different administrative works assigned by Department of Computer Science (such as class routine preparation, exam routine preparation, exam related duties etc.)
- Performed and co-ordinated several administrative tasks for conducting departmental events.
- Assigned as a Convenor of the event "An Online Talk on Deep Learning and Computational Intelligence" organized by Department of Computer Science, The Bhawanipur Education Society College.
- Carried out different administrative works assigned by the Department of Computer Science (such as class routine preparation, exam routine preparation, exam related duties etc.)
- Assigned as a Coordinator of Seminar/FDP/Workshop Committee, Science Section, The Bhawanipur Education Society College.
- Assigned as a member of Feedback and Survey Committee, The Bhawanipur Education Society College.
- Assigned as a member of Competitive Examination Committee, Science Section, The Bhawanipur Education Society College.
- Assigned as a Convenor of the event "An Online Talk on Deep Learning and Computational Intelligence" organized by Department of Computer Science, The Bhawanipur Education Society College.
- Assigned as a Coordinator of the event "National Science Day " in 2022 and 2023 organized by Seminar/FDP/Workshop Committee, Science Section, The Bhawanipur Education Society College.

Assigned as a Coordinator of the event "Lecture Series - 1: Symposium on Artificial Intelligence and Machine Learning " organized by Seminar/FDP/Workshop Committee and Department of Computer Science, Science Section, The Bhawanipur Education Society College.

Assigned as an organizing member of the coding competition event "Code-fiesta" in 2022 arranged by Department of Computer Science, The Bhawanipur Education Society College.





# Shawni Dutta

College Whole Time Teacher  
Department of Computer Science

## Administrative Assignment

- Assigned as an organizing member of the coding competition event "Career Avenues for Science Graduates" arranged by Department of Computer Science, The Bhawanipur Education Society College.
- Assigned as an organizing member of the "A Two-Day Web Talk on Introduction to Cloud Coding with AWS and Cloudsim" arranged by Department of Computer Science, The Bhawanipur Education Society College.

## Subjects Taught

Data Mining | Computational Intelligence | Internet Security | Operating System | Theory of Computation | Microprocessor | Discrete Mathematics | Programming and Scripting languages (C, C++, HTML, CSS, JavaScript, Python, SQL, PHP, Shell Scripts).

## Research Interests

Machine Learning | Deep learning | Cryptography | Steganography | Medical field

## Books Published

Published a book on COVID-19: Validation of Disease by Machine Learning Approach: LAP, Lambert Academic Publishing, Eastern Europe, (April 24, 2020).

## Journal Publications

- Shawni Dutta and Prof. Samir Kumar Bandyopadhyay, "Machine learning approach for confirmation of COVID-19 cases: positive, negative, death and release", Published in IBEROAMERICAN JOURNAL OF MEDICINE, 2020, <http://dx.doi.org/10.5281/zenodo.3822623>.
- Shawni Dutta, Samir Kumar Bandyopadhyay and Tai Hoon Kim "CNN-LSTM Model for Verifying Predictions of Covid-19 Cases", Published in Asian Journal of Research in Computer Science, 2020. DOI: 10.9734/AJRCOS/2020/v5i430141

Shawni Dutta, and Samir Kumar Bandyopadhyay. "Fake job recruitment detection using machine learning approach." International Journal of Engineering Trends and Technology 68.4 (2020): 48-53.





# Shawni Dutta

College Whole Time Teacher  
Department of Computer Science

## Journal Publications

- Shawni Dutta, Jyotsna Kumar Mandal, Tai Hoon Kim, and Samir Kumar Bandyopadhyay, "Breast Cancer Prediction Using Stacked GRU-LSTM-BRNN", Published in Applied Computer Systems, Volume 25: Issue 2.
- Samir Kumar Bandyopadhyay, Vishal Goyal, & Shawni Dutta, "PROBLEMS AND SOLUTIONS DUE TO MENTAL ANXIETY OF IT PROFESSIONALS WORK AT HOME DURING COVID-19", Psychiatria Danubina, 2020; Vol. 32, No. 3-4, pp 287-396.
- Shawni Dutta and Prof. Samir Kumar Bandyopadhyay, "Artificial Intelligence Based Study on Analyzing of Habits and with History of Diseases of Patients for Prediction of Recurrence of Disease Due to COVID-19"-Published in International Journal of Engineering and Management Research (IJEMR) , 2020. DOI: 10.31033/ijemr.10.4.16
- Shawni Dutta and Akash Mehta, "Unfolding Sarcasm in Twitter Using C-RNN Approach", Bulletin of Comp. Sci. Electr. Eng., vol. 2, no. 1, pp. 1-8, Mar. 2021.
- Shawni Dutta and Prof. Samir Kumar Bandyopadhyay. "Associating Unemployment With Panic Attack Using Deep Learning During COVID-19". Journal of Engineering Research and Reports, Vol. 17, no. 3, Oct. 2020, pp. 33-40, doi:10.9734/jerr/2020/v17i317190.
- Shawni Dutta and Prof. Samir Kumar Bandyopadhyay, "Prediction of Air Flight Cancellation during COVID-19 using Deep Learning Methods"- Published in INTERNATIONAL JOURNAL OF EDUCATIONAL RESEARCH, 2020.
- Shawni Dutta and Prof. Samir Kumar Bandyopadhyay, "Stacked Bi-directional LSTM Layer Based Model for Prediction of Possible Heart Disease during Lockdown Period of COVID-19", Journal of Advanced Research in Medical Science and Technology, 2020.
- Shawni Dutta and Prof. Samir Kumar Bandyopadhyay, "Revealing Brain Tumor Using Cross-Validation NGBoost Classifier", International Journal of Machine Learning and Networked Collaborative Engineering, 2020.
- Utsab Mukherjee, Shawni Dutta., Samir Kumar Bandyopadhyay, S. K. (2021). Assembling Blockchain and IoT for Smart Food-Supply Chain. Asian Journal of Advances in Agricultural Research, 16(3), 49-58. <https://doi.org/10.9734/ajaar/2021/v16i330177>.





# Shawni Dutta

College Whole Time Teacher  
Department of Computer Science

## Publications In Edited Book Chapters

- Binay Kumar Pandey, Deepak Mane, Vinay Kumar Kumar Nassa, Digvijay Pandey, Shawni Dutta, Randy Joy Magno Ventayen, Gaurav Agarwal, and Rahul Rastogi. "Secure Text Extraction From Complex Degraded Images by Applying Steganography and Deep Learning." In Multidisciplinary Approach to Modern Digital Steganography, pp. 146-163. IGI Global, 2021.
- Sabyasachi Pramanik, Ramkrishna Ghosh, Digvijay Pandey, Debabrata Samanta, Soumi Dutta, and Shawni Dutta. "Techniques of Steganography and Cryptography in Digital Transformation." In Emerging Challenges, Solutions, and Best Practices for Digital Enterprise Transformation, pp. 24-44. IGI Global, 2021.
- Shawni Dutta and Samir Kumar Bandyopadhyay, "Diabetes Prediction Using Machine Learning Approaches" Advanced Prognostic Predictive Modelling in Healthcare Data Analytics., Lecture Notes on Data Engineering and Communications Technologies, Springer Nature; 2021.
- Samir Kumar Bandyopadhyay, Vishal Goyal, and Shawni Dutta. "Artificial-intelligence-based diagnosis of brain tumor diseases." In Artificial Intelligence in Cancer Diagnosis and Prognosis, Volume 3: Brain and prostate cancer. IOP Publishing, 2022.

## Paper Presentation At Conferences

- Presented a paper on "Monitoring Transmission Dynamics and Impact of Habit and Past Health Records on COVID-19" at the 11th International Virtual Seminar on COVID-19 Part II organized by SciTech Central Conferences associated with Journal of Infectious Diseases & Research.
- Participated in the 2nd International Conference on Emerging Technologies in Data Mining and Information Security (IEMIS 2020) for a paper on "A Survey on Online Spam Review Detection" and published the paper on Springer Advances in Intelligent Systems and Computing (AISC) Series.

## Paper Publications With Students

- Anuran Bhattacharya, Shawni Dutta and Samir Kumar Bandyopadhyay, "Stock Market Price Prediction using two-layer LSTM-RNN", International Journal of Advances in Engineering and Management (IJAEM), Volume 2 , Issue 1, 2020 , Page No : 84-88, DOI : 10.35629/5252-45122323.
- Ankita Dutta, Pratyusha Ghosh, Akash Mehta, Shawni Dutta," Revisiting Depression Detection Paradigms Using Machine Learning Approaches", International Journal of Research in Engineering and Applied Sciences (IJREAS), Vol. 10 Issue 03, March - 2020.





# Shawni Dutta

College Whole Time Teacher  
Department of Computer Science

## Paper Publications With Students

- Saronyo Lal Mukherjee, and Shawni Dutta. "A Comparative Study of School Parent Satisfaction Predictors Using Different Classifiers". International Journal for Research in Applied Sciences and Biotechnology, Vol. 8, no. 3, June 2021, pp. 104-9.
- Shawni Dutta, Upasana Mukherjee, and Samir Kumar Bandyopadhyay, "Pharmacy Impact on Covid-19 Vaccination Progress Using Machine Learning Approach", Journal of Pharmaceutical Research International, 33(38A): 202-217, 2021.

## Participation In Seminars / Webinars / Workshops / Conferences

- Participated in an Online talk on No Lockdown On Domestic Violence During The COVID-19 Pandemic organized by Women's cell and approved by IQAC of The Bhawanipur Education Society College held on June 10, 2020.
- Participated in a webinar on Natural Language Processing organized by Department of Computer Science and Electronics and IQAC of New Alipore College held on July 27, 2020.
- Participated in a webinar on DEEPFAKES organized by Society for data science (S4DS) held on July 04, 2020.
- Participated in a webinar on Machine Learning and Steganography organized by Department of Computer Science and BCA, Kharagpur College on August 4, 5, 2020.
- Participated in a webinar on Neural Networks and brief insight into Deep Learning organized by Department of Computer Science, Scottish Church College, in collaboration with IQAC, on July 10, 2020.
- Participated in a webinar on With Covid Around How Should I 'Live and Let Live' organized by Department of Mathematics, The Bhawanipur Education Society College, on July 10, 2020.
- Participated in a webinar on Saha and his journey to the stars organized by Department of Physics, The Bhawanipur Education Society College, on June 22, 2020.
- Participated in a webinar on APPLICATION OF NUMBER THEORY IN CYBER SECURITY - FEW ILLUSTRATIONS THROUGH SAGEMATH organized by Department of Mathematics, The Bhawanipur Education Society College, on June 20, 2020.





# Shawni Dutta

College Whole Time Teacher  
Department of Computer Science

## Participation In Seminars / Webinars / Workshops / Conferences

- Participated in An online talk on Simplifying Artificial Intelligence, Machine Learning and Data Science on 13th June 2020 organized by the Department of Computer Science – The Bhawanipur Education Society College.
- Participated in a Two-Day Student Webinar On the cutting edge technologies in Computer Science on 26th and 27th August 2020 organized by the Department of Computer Science – The Bhawanipur Education Society College.
- Participated in A Web-Talk on “Deep Learning and Computational Intelligence” on 19th October 2020 organized by the Department of Computer Science – The Bhawanipur Education Society College.
- Participated in A Two-Day WebTalk on Introduction to Cloud Coding with AWS and CloudSim on 5th and 6th July, 2021 organized by the Department of Computer Science – The Bhawanipur Education Society College.
- Participated in National Seminar on Computational Intelligence and Internet of Things (followed by a discussion session on course syllabi of UG Computer Science, CU) held at CRNN Auditorium, Technology Campus, University of Calcutta on 25/11/22.

## Online Certifications

Completed online course on “Learn HTML, CSS, & JavaScript Web for Development” organized by Udemy.

## Awards / Recognitions

Received a recognition from Kamarajar Institute of Education and Research (KIER) for Research Contribution in the field of Artificial Intelligence and Machine Learning.

## Special Invitations

- Invited as a Speaker on the topic “Growth of COVID-19 in the World using Machine Learning Approach,” Virtual Summit on Saturday, July 11th 2020, organized by Sciinov Group, Europe.
- Invited as a Panelist member at INDCON 2020-21 organized by the IMC Chamber of Commerce and Industry, in association with MIT-World Peace University (MIT) on 11th February, 2021. Title of Speech-“Role of educational institutions in research and development initiatives in India”.





# Shawni Dutta

College Whole Time Teacher  
Department of Computer Science

## Other Notable Activities

- Joined as a reviewer in Advances in Science, Technology and Engineering Systems Journal (ASTESJ)
- Delivered lecture in a workshop on “MS-Excel and its Applications in Economics” from 13th to 15th July 2020 in The Bhawanipur Education Society College, jointly organized by Department of Economics and Department of Computer Science, The Bhawanipur Education Society College.

## Vision Statement

It is my commitment to escalate students' knowledge and skills by promoting their mind and learning paradigms that lead to lives of purpose and meaning. With this context, I firmly believe that a sympathetic and interactive engagement among teacher-students can reflect the students' knowledge and problem-solving capabilities. To provide them with the best possible knowledge, the necessity of utilizing the current trends and ongoing research areas are also carried out on behalf of me, which in turn will also enrich my organization.

Signature of the  
Faculty Member

Date: 01st September, 2022



**THE BHAWANIPUR  
EDUCATION SOCIETY COLLEGE**



**THE BHAWANIPUR  
EDUCATION SOCIETY COLLEGE**