



## THE BHAWANIPUR EDUCATION SOCIETY COLLEGE

### ACADEMIC DEPARTMENT: COMPUTER SCIENCE

#### FACULTY ACADEMIC PROFILE / CV

**Full Name of the Faculty Member:** Sreshtha Basu

**Designation:** College Whole Time Teacher

**Specialization:** Machine learning in the prediction of atmospheric instabilities and solar Perturbations.



#### BIOGRAPHICAL SKETCH

Sreshtha Basu is currently associated as College Whole Time Teacher, in the Department of Computer Science, The Bhawanipur Education Society College, affiliated to University of Calcutta. Smt. Basu has completed her Master's in computer science from St. Xavier's College (Kolkata) under the University of Calcutta and her Bachelor's in computer science from New Alipore College (Kolkata). During the course of her study, she has developed an interest in the field of Machine Learning and Artificial Intelligence. Due course of study, has done two projects in these corresponding fields.

## CONTACT INFORMATION

- **Contact Address (Office):** 5, Elgin Road, Kolkata-700020, West Bengal, India
- **Contact Number (Office):**
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- Ⓣ **Mobile Number:** +919163655467

## ACADEMIC QUALIFICATIONS

Abbreviation of the Degree	Name of the College / University	Class Obtained	Area of Specialization	Year of Passing
M.Sc.	St. Xavier's College (Kolkata), University of Calcutta	2 <sup>nd</sup> Class	Computer Science	2023
B.Sc. (Honours)	New Alipore College (Kolkata), University of Calcutta	1 <sup>st</sup> Class	Computer Science	2021

## POSITION HOLDING (FULL TIME)

College Whole Time Teacher, **Department of Computer Science, The Bhawanipur Education Society College, University of Calcutta**, November 2023 – Present

## SUBJECTS TAUGHT

- Computer Graphics
- Computer Architecture and Organization
- Graph theory
- Python programming

## RESEARCH INTERESTS

Machine learning in solar perturbations like Flares, Coronal Mass Ejections, Prominences and Sunspots.

## PARTICIPATION IN SEMINARS / WEBINARS / WORKSHOPS / CONFERENCES

- Avenesis'2018 and 2019 (An Exhibitory platform that includes all the departments) New Alipore college. Has worked as a member in the team to develop "Unmanned Aviation Vehicle (Drone)" that project has ranked 2<sup>nd</sup> (Science) in that exhibition.
- Worked as a fellow member in the group at the Coding competition in Fakir Chand College.
- Worked as a member in a group which has stood 3<sup>rd</sup> in Evolve'2018 (Intercollege Poster completion)
- Abhijit Banerjee, Sreshtha Basu *et al.*, "Prediction of Atmospheric Instabilities from The Surface Parameters Through Machine Learning ", 5th International Conference on "Physics of Sustainable Development & Technology (ICPSDT,2023) " , Book of Abstracts (Extended), Chittagong University of Engineering and Technology (CUET), Bangladesh,2023,P-87

## ONLINE CERTIFICATIONS

- Data Science certification 2022, Hertie School

## AWARDS / RECOGNITIONS

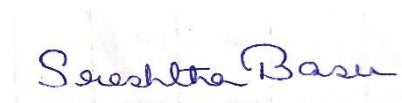
Received best paper award for the article, "Prediction of Atmospheric Instabilities from The Surface Parameters Through Machine Learning", Authored by Abhijit Banerjee, Sreshtha Basu *et al.*, at 5th International Conference on "Physics of Sustainable Development & Technology (ICPSDT, 2023) "

## OTHER NOTABLE ACTIVITIES AND ACHIEVEMENTS

- Completed MSc Project Work on “Indian Sign Language Recognition”, 2022-2023
  - Contributed portion of work in this project as follows
    - Developing coding in CNN, Random Forest, Support Vector Machine
    - Documentation
- Completed B. Sc Project Work on “Cryptocurrency Price Prediction Website”, 2021
  - Contributed portion of work in this project as follows
    - Developing coding in LSTM, Bi-LSTM, SVM, Linear Regression
    - Documentation

## VISION STATEMENT

- If there is any opportunity to explore and deal with the fields of my interest, I will make myself fit in that at maximum.
- To learn and strive for excellence and explore knowledge in the field of Computer Science.
- Prepare students to be pioneer in their professional field.
- Encourage students to embrace creativity and think out of the box.
- Provide students with foundations of moral values that will help them to become ethical beings.



Signature of the Faculty Member

Date: 08<sup>th</sup> December, 2023