THE BHAWANIPUR EDUCATION SOCIETY COLLEGE

ACADEMIC DEPARTMENT: COMPUTER SCIENCE

FACULTY ACADEMIC PROFILE / CV

Full Name of the Faculty Member: Asmita Mukherjee

Designation: College Whole Time Teacher

Specialization: Deep learning in Medical image analysis

BIOGRAPHICAL SKETCH

Asmita Mukherjee is currently associated as College Whole Time Teacher, in the Department of Computer Science, The Bhawanipur Education Society College, affiliated to University of Calcutta. Ms. Mukherjee has completed her Master's in computer science from Asutosh College (Kolkata) under the University of Calcutta and her Bachelor's in computer science from Asutosh College (Kolkata). During the course of her study, she has developed an interest in the field of Machine Learning and Deep learning. Due course of study, has done projects in these corresponding fields.

CONTACT INFORMATION

- **Contact Address (Office): 5, Lala Lajpat Rai Sarani, Kolkata – 700 020**
- **Contact Number (Office):**
- **E-Mail ID (Official): asmita.mukherjee@thebges.edu.in**
- **Mobile Number:** +919007369912

ACADEMIC QUALIFICATIONS

Abbreviation of the Degree	Name of the College / University	Marks Obtained (CGPA)	Area of Specialization	Year of Passing
M.Sc.	Asutosh College (Kolkata), University of Calcutta	8.267	Computer Science	2023
B.Sc. (Honours)	Asutosh College (Kolkata), University of Calcutta	8.038	Computer Science	2021

POSITION HOLDING (FULL TIME)

College Whole Time Teacher, **Department of Computer Science, The Bhawanipur Education Society College, University of Calcutta**, September 2024– Present

SUBJECTS TAUGHT

- Python programming
- Fundamentals of Computer Science and its applications
- Computer Fundamentals and digital logic

RESEARCH INTERESTS

- Analysis of medical images using Deep learning .
- Pattern recognition using machine learning.

ONLINE CERTIFICATIONS

- Python programming from Great Learning Academy.
- Python projects from Great Learning Academy.
- Python crash course from Udemy.
- HTML, CSS, JAVA SCRIPT course from Udemy.

- Introduction to Artificial Intelligence from Great Learning Academy.
- Learn to predict breast cancer using machine learning algorithms from Udemy

OTHER NOTABLE ACTIVITIES AND ACHIEVEMENTS

- Completed MSc Project Work on "**Detection of Spoofing Attacks in Palm-Vein images by using Deep and Handcrafted Feature.**",2023.

  Description: The idea of the project is to enhance the security of palm vein recognition by merging deep learning and handcrafted features to detect spoofing attacks.

  Contributed portion of work in this project as follows

  ➢ Developing coding in Preprocessing images and CNN models like-densenet161,resnet50 and Local Binary pattern(LBP) as a handcrafted feature.

- Completed B. Sc Project Work on "**A customized CNN model to recognize speech instruction** ", 2021

  Description: In this project we want to use neural networks in our approach that is concerned with ASR to create an intelligent interface and works to receive the voice of users.

  Contributed portion of work in this project as follows

  ➢ Developing coding in CNN model, ReLu, Softmax and removing noises from the input voices.

- Presented a seminar on "**Explainable AI(XAI)**" 2022 during M. Sc degree.

VISION STATEMENT

- I envision a future where new technologies will help in solving the biggest problems faced by humanity.
- Want to create a space where students are fully prepared to work on practical problems, help to build progress, and make the society better with intelligent systems.
- My approach is to make sure that classroom instructions bear fruit, not just in terms of passing examinations, but in satisfying the need for practical applicability of computer science education in this rapidly changing world.
- To cultivate a love for learning that lasts in the field of computer science, so that students can cope with and be able to bring along advancement in technology even in their working careers.

Signature of the Faculty Member

Date: 08th September, 2024