Tanusri Ghosh

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Dumdum Cantonment
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Objective

To pursue a challenging career and be part of a progressive organization that gives scope to enhance my knowledge, skills and to reach the pinnacle in the computing and research field with sheer determination, dedication and hard work. I am interested in computational biology and bioinformatics.

Academic Qualification

Ph. D. in *Computer Science & Engineering* (2021-Present)

Registration No	:	*PhD/Tech/CSE001/2021-ADF*
Ph. D. Thesis Title	:	*Biomarker Identification for Precision Medicine: Artificial Intelligence Approaches*
Institute	:	*Maulana Abul Kalam Azad University of Technology, W.B.*
Name of the Supervisor	:	*Prof. Sriyankar Acharyya*

M. Tech in *Computer Science & Engineering* (2018-2020)

Institute	:	*Maulana Abul Kalam Azad University of Technology, W.B.*
Marks Obtained	:	*8.99 out of 10 (DGPA)*
Division/Class	:	*1st*

B. Tech in *Information Technology* (2008-2012)

Institute	:	*Murshidabad College of Engineering & Technology (WBUT)*
Marks Obtained	:	*7.89 out of 10 (DGPA)*
Division/Class	:	*1st*

Higher Secondary (2008)

Institute	:	*Berhampore Girls Mahakalipathsala (WBCHSE)*
Marks Obtained	:	*61.29 %*
Division/Class	:	*1st*

Secondary (2006)

Institute	:	*Katihar Netaji Vidyamandir (WBBSE)*
Marks Obtained	:	*70.25%*
Division/Class	:	*1st*

Experiences

Institute	Year (from-to)	Designation
Adamas University	7 months (3rd April 2024- Present)	Assistant Professor
Maulana Abul Kalam Azad University of Technology, West Bengal	1yr (2023-2024)	SRF
	2yr (2021-2023)	JRF
	2yr (2018-2020)	TA

Research Interest

Soft Computing, Computational Biology, Bioinformatics, Machine Learning etc.

Projects

M. Tech Thesis:

Title: Pathway Marker Identification Using Gene Expression Data Analysis: A Meta-Heuristic Approach

Supervisor: Prof. Sriyankar Acharyya, MAKAUT, WB

Description: The main objective of this project is to select good marker genes from DNA microarray data. To select differentially expressed genes from pathways, a Mutated Particle Swarm Optimization (MBPSO) has been proposed and implemented. This proposed method applied on six different real-life cancer dataset and analysed the performance of this method by comparing with other existing method. The biological relevance of the selected genes is also examined through DisGeNET software and the Protein-Protein Interaction of these selected genes are also analysed.

B. Tech Thesis:

Title: Local Search System

Supervisor: Assistant Prof. Shibu Das, MCET

Description: Local search is the use of specialized internet search engines that allow to submit geographically constrained searches against a structured database of local business listings. The website has been designed using .Net with C#.

Achievements

1. AICTE Doctoral Fellow (2021-2023)
2. Gate-2018, Organized by IIT Guwahati Paper: CS, Score: 350.

Publication

1. Ghosh, T., Mitra, S., Acharyya, S. (2022). *Pathway Marker Identification Using Gene Expression Data Analysis: A Particle Swarm Optimisation Approach*. In: Mandal, J.K., De, D. (eds) Advanced Techniques for IoT Applications. EAIT 2021. Lecture Notes in Networks and Systems, vol 292. Springer, Singapore. https://doi.org/10.1007/978-981-16-4435-1_14.

2. Ghosh, T., Acharyya, S. (2024). *Role of Pre-processing in Gene Selection Using DNA Microarray Gene Expression Data.* In: Tavares, J.M.R.S., Rodrigues, J.J.P.C., Misra, D., Bhattacherjee, D. (eds) Data Science and Communication. ICTDsC 2023. Studies in Autonomic, Data-driven and Industrial Computing. Springer, Singapore. https://doi.org/10.1007/978-981-99-5435-3_7.

Certification

1. Attending Short Term Training Program / Faculty Development Program on "Soft Computing Techniques in Engineering Applications" at Syed Ammal Engineering College, Tamil Nadu from August 10 to August 16, 2020.

2. Attending AICTE Training and Learning (ATAL) Academy Online FDP on "Computer Science & Biology" from 2020-10-5 to 2020-10-9 at National Institute of Technology, Arunachal Pradesh.

3. Attending AICTE Training and Learning (ATAL) Academy Online FDP on "Computer Science & Biology (BIO-INSPIRED COMPUTING IN DEEP LEARNING ARCHITECTURE)" from 2020-11-2 to 2020-11-6 at S. R. M Institute of Science and Technology.

4. Attended and presented in the 6th International Conference on Emerging Applications of Information Technology, held on February 25 - 27, 2021 at Kalyani, West Bengal, India, organized by University of Kalyani (Online Mode)

5. Program moderator in AICTE Training and Learning (ATAL) Academy Online FDP on "Application of AI, ML and DL in Smart Healthcare" from 2021-09-27 to 2021-10-1 at Maulana Abul Kalam Azad University of Technology, West Bengal.

6. Program committee member and reviewer in 3rd International Conference on Data Science and Applications (ICDSA 2022), held during March 26 – 27, 2022, at Jadavpur University, India.

7. Reviewer in 1st the Doctoral Symposium on Human Centered Computing (HUMAN 2023), held on February 25, 2023, at Techno India University, West Bengal.

8. Attended and presented in the 1st International Conference on Data Science and Communication, held on 23-24, March 2023 at Siliguri organized by Siliguri Institute of Technology, Sukna, Siliguri (Hybrid Mode).

9. Reviewer in 4th International Conference on Computer, Communication, Control and Information Technology(C3IT2024), held on September 28 and 29, 2024, at Academy of Technology, West Bengal.

Personal Details

Father Name	Tapan Kumar Ghosh
Mother Name	Snigdha Ghosh
Date of Birth	24th October 1990

References

Dr. Sriyankar Acharyya
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Professor, Computer Science and Engineering
Maulana Abul Kalam Azad University of Technology, West Bengal
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Ph: 8777890523

Dr. Pradyut Sarkar
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Maulana Abul Kalam Azad University of Technology, West Bengal
Email: pradyut_sarkar77@yahoo.com
Ph: 9231686260

I hereby declare that the particulars given above are true & correct to the best of my knowledge & belief.

Date:

Tanusri Ghosh