Argajit Sarkar

Master's of Science, Molecular Biology & Bioinformatics

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SUMMARY

I am Argajit, a passionate Research Scholar with a Master of Science in Molecular Biology and Bioinformatics from Tripura University (a Central University) in Agartala, India. My expertise lies at the intersection of Antimicrobial resistance research with Machine learning and bioinformatics.

Having graduated in 2024 with a CGPA of 8.10/10, I now focus my research on developing innovative antibiofilm strategies and antimicrobial solutions to address pressing healthcare concerns worldwide.

EDUCATION

M.Sc in Molecular Biology & Bioinformatics   Nov, 2022 – July 2024
Tripura University, Agartala, Tripura, India
CGPA: 8.15/10

B.Sc in Human Physiology with Honours   Mar, 2019 – Sept 2022
Holy cross college, Agartala, Tripura, India
CGPA: 6.45/10

PUBLICATIONS

- **Sarkar, A., Bhattacharjee, S. Biofilm-mediated bioremediation of xenobiotics and heavy metals: a comprehensive review of microbial ecology, molecular mechanisms, and emerging biotechnological applications. 3 Biotech 15, 78 (2025).** https://doi.org/10.1007/s13205-025-04252-2

- Barik, S., Goswami, S., Nanda, P. K., Sarkar, A., Saha, B., **Sarkar, A.**, & Bhattacharjee, S. (2025). TGF-beta plays dual roles in immunity and pathogenesis in leishmaniasis. Cytokine, 156865. https://doi.org/10.1016/j.cyto.2025.156865

EXPERIENCE

- **Disstertation project titled "Exploring the Combinatorial Antimicrobial and Anti-Virulence Potential of Quercetin with Antibiotics Against *Vibrio cholerae*".**   **Feb – July, 2024**

  Six months of immersive experience in the molecular biology and bioinformatics laboratory, where I collaborated with PhD scholars to conduct various experiments and relevant data to support our title, culminating in a perfect 10/10 SGPA.

SKILLS

Lab: Cell culture techniques, Blotting techniques, Gel Electrophoresis, DNA & RNA isolation, Antimicrobial, and Antibiofilm assays.

Data Science: MS Excel, SQL, Python.

BI Tools: Tableau, and Pandas.

Relevant Courses: Professional Data Analytics, Python for Data Analytics, Data Analytics with ChatGPT.

COFFERENCE & SEMINARS

- Participated in the Science Beyond Borders (Global S&T) event, India International Science Festival (IISF), 2024 at IIT Guwahati.
- Oral Presentation at National Conference on Recent Trends in Biological Sciences in North Eastern India (NCRTBSNEI-2025), March 2025.

CERTIFICATION

Programming

- Python
- SQL

Data_Science

- Introduction to Data and Data Science
- Python for Data Science
- Excel for Data Science
- SQL
- ChatGPT for Data Science
- ChatGPT prompting

AI_Machine Learning

- Machine Learning Supervised Learning
- Deep Learning (TenserFlow)
- Ai Ethics

Other

- NPTEL Wild life Ecology (IIT Kanpur)
- SkillUP SSC NASSCOM Foundation AI Curriculum
- Shantanu Kar Merit Award.